CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, July 4, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

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RAILWAYS.

ANDERSON & BELLA VISTA.—This road running from Anderson to Bella Vista and operated by the Terry Lumber Co. will be extended from Bella Vista to Ingot, Cal., a distance of about twelve miles. Surveys have been made between those places and it is considered that the work will be light. J. E. Terry is Mgr.

ATLANTA, BIRMINGHAM & ATLANTIC.—Alexander Bonnyman, Ch. Engr., Atlanta, Ga., advises us that contracts will be let in about six months for constructing a line from Bessemer to Birmingham, 13 miles.

BILOXI GREAT NORTHERN.—A company is being organized in Mississippi to build a line from Biloxi north to a connection with the Mobile & Ohio at Bucatunna, 80 miles. W. M. Dukati is Pres.; J. B. Chinn, Vice-Pres.; W. Gorenfio, Treas., and I. Heidemheim, Secy. W. L. Covel is also interested. The headquarters of the company will be at Biloxi.

CANADIAN PACIFIC.—Contracts have been let to WILLIAM DIXON and GOURLEY HUTCHINSON, of Dryden, Ont., for double-tracking the main line of this road between Wabigoon and Barclay, about ten miles.

A company has been organized in the interests of the Canadian Pacific to build a line from the Canadian boundary to Seattle, a distance of 160 miles. This will give the Canadian Pacific a direct route from Montreal to Seattle over its own tracks, and will, it is believed, add materially to the traffic and earnings of the company. At present the Canadian road runs into Seattle over a line owned by the Northern Pacific. The bonds of the new company have been placed abroad, and the work of laying out the route is under way. F. F. Busteed is Gen. Supt. Pacific Div., Vancouver, B. C.; H. B. Walken is Res. Engr., Vancouver.

CAPE FEAR, SOUTHPORT & ATLANTIC.—This company, which proposes to build a line 40 miles long from Wilmington to Southport, N. C., has been chartered with $1,000,000 capital. The principal stockholders are A. J. Fahnestock and F. S. Pusey, of Philadelphia, Pa., the others being Thomas M. Stranger, of Camden, N. J.; William Rawlings, of Palmyra, N. J., and Albert P. Bauman, of Raleigh, N. C. The directors include the stockholders, except Mr. Rawlings, and the following: John F. Reardon, Charles F. Auck and Charles F. Belknap, all of Philadelphia.

ELKIN & ALLEGHENY.—This company, which proposes to build a line from Elkin, N. C., on the Southern Railway northwest to Marion, Va., on the Norfolk & Western, about 80 miles, is making surveys and securing right-of-way. Grading, it is expected, will be started next month. J. W. Stevens, is Ch. Engr., Elkin. Noted on May 23.

EVANSVILLE RAILWAY.—Under this name a company has been incorporated at Evansville, with a capital of $1,000,000. The incorporation consolidates the Evansville, Rockport & Eastern with the Evansville & Mount Vernon, both completed traction lines. It is purposed to build through to Louisville.

GEORGIA.—The Southern Engineering & Contracting Co., of Atlanta, has applied for a charter to build and operate a railroad from Pelham to Leary via Newton, Ga. The engineers have been over the route. A drawbridge will be erected over the Flint River at Newton. This road will connect the Central of Georgia and the Atlantic Coast Line.

GEORGIA-CAROLINA.—Company has applied for a charter to build its proposed line from Athens, Ga., to Hartwell, Ga., and Anderson, S. C., about 60 miles. It is stated that an old grade of the Athens & Carnesville Traction Co. may be used for eight miles. The incorporators are A. H. Hodgson, W. F. Dorsey, C. J. O'Farrell and James White, of Athens; A. N. Alford, J. W. Williams, J. H. Hodges, A. J. McMullan, T. J. Linder and W. L. Hodges, of Hartwell; G. W. Westbrook, of Ila; D. W. Brooks, Royston; Berry T. Moseley, of Danielsville; A. J. Owens, of Canon, and J. R. Dortch, of Carnesville, Ga.

GRAND TRUNK PACIFIC.—Contract has been let to TREAT & JOHNSON, of Winnipeg, for building 51 miles of line between Winnipeg and Portage la Prairie.

INTERCOLONIAL.—The J. B. McMANUS CO., Memramcook, N. B., has been awarded a contract for double-tracking on this road between Moncton and Painsec Junction.

KANSAS CITY, MEXICO & ORIENT.—Right-of-way is being secured by this company for a proposed branch from Sentinel, in Washita County, Okla., southeast to Lawton, about 70 miles. The proposed route from Lawton is through Fort Sill reservation, thence following Medicine Creek via Saddle Mountain and Hobart to Sentinel. An extension of this branch from Lawton east to Sulphur, about 100 miles, is also projected. E. Dickinson is Vice-Pres. and Gen. Mgr., Kansas City, Mo. M. P. Paret, Kansas City, is Ch. Engr.

NORTH & SOUTH TEXAS.—The contract for constructing the first 20 miles of this road from Groveton to junction of the Texas Southeastern has been awarded to COX & CHESSHER and C. M. McCONNICO. The road is to be built from Groveton to Lufkin, 36 miles. P. A. McCarthy is Ch. Engr., Lufkin, Tex.

*PENSACOLA, ALABAMA & WESTERN.—Bids are asked until noon, July 20 (postponed from July 10 as advertised on June 27), by the Interstate Contract Co., 224 Brent Bldg., Pensacola, Fla., for grading about 40 miles of railroad. Work to be graded covers 20 miles of the Andalusia Division, and 20 miles of the Atmore Division. This road is to connect Pensacola and Memphis, via West Point. J. I. Miller is Ch. Engr.

PORTLAND & NORTHERN.—It is stated that preliminary surveys are being made and that construction will commence on July 25 on this proposed road from Portland, Me., to Bridgton, about 40 miles.

ROBERT LEE & FORT CHADBOURNE.—Surveyors have begun locating this proposed railroad and survey will be extended to Winters, in Runnels County, Tex. Noted on June 20.

ROCKWOOD & BAKERSVILLE.—This company will build a road nine miles in length between Rockwood and Bakersville, Somerset County, Pa. Surveys are now in progress. Work will be new, and mostly light. The company will do its own work. Charles F. Hood is Pres.; S. M. Foust is Ch. Engr., both of Connellsville, Pa.

SAN DIEGO & ARIZONA.—This company proposes to build a railroad from San Diego, Cal., to Yuma, Ariz., about 200 miles, and it is stated that construction will be commenced as soon as right-of-way has all been secured. Preliminary work has been done in Carriso Canyon, which is about twelve miles long, with walls of solid granite. Benches are now being cut, upon which track will be laid in order to give the company legal control of the pass and facilitate the building of a long tunnel. John D. Spreckles is Secy.

SHAWNEE CENTRAL.—Sydney J. Roy, of Shawnee, writes us that this company will build a line 75 miles long from Shawnee to Muscogee in Okmulgee County, following the North Fork of the Canadian River. About 50 miles of survey has been completed and right-of-way has been secured. Contracts will be let when survey has been completed. F. H. Peckham, Shawnee, Okla., is Ch. Engr.; James M. Aydelotte, Shawnee, is Pres.

ST. FRANCIS RIVER.—Chartered to build a line 21 miles long from Round Pond, Ark., to Parkin Station, with a capital of $250,000. The directors are W. D. Darnell and E. E. Taenzer, both of Memphis, Tenn., and E. N. Stonebraker, C. C. Armstrong, T. E. Hare, R. E. Wood, A. H. Hammett, E. A. Rolfe and T. S. Hare.

ST. LOUIS, MOUNTAIN GROVE & SOUTHERN.—Incorporated in Missouri with capital stock of $300,000, to build a railroad from Mountain Grove, Wright County, to Bryant Creek, Ozark County, 30 miles. J. J. Hedges, of Springfield, Mo., J. Allhans, of St. Louis, and P. M. Johnston, of St. Elmo, Ill., are Directors.

VALLEY RIVER.—Company has been incorporated with $50,000 capital to build a line from a point near Mill Creek in Ran-

dolph County, W. Va., to a point at or near Clover Creek in Pocahontas County. The incorporators are John G. Hoffman, Jr., and Frank C. Hoffman, of Wheeling, W. Va.; Lydia E. Shull, of Mill Creek, W. Va.; Nevina Hench and W. A. Donnell, of York, Pa.

•VIRGINIA.—Bids are asked until noon, July 30, by Capt. R. H. C. Kelton, Q. M., Fort Monroe, for reconstructing and extending railroad track at Fort Monroe; also for supplying locomotive and cars.

WESTERN ALLEGHENY.—This company will build a 30-mile extension this year, to cost about $1,500,000, from East Brady in Butler County, to Leechburg, Mercer County. The company will connect with the New York Central, which is constructing a line that will touch the Western Allegheny between New Castle, Pa., and Franklin. A. T. Porter, Greenville, Pa., is Ch. Engr.

WYOMING WESTERN.—Articles of incorporation have been filed for this company at Rapid City, with a capital of $4,000,000. Incorporators: Charles D. Crouch, Verne L. Crouch, Jacob S. Gantz, Charles H. Fulton, Elmore E. Hurlbut, all of Rapid City. The purpose of the company is to construct an extension of the Wyoming & Missouri River, from Mystic to Buffalo, Wyoming, a distance of 200 miles. About 40 miles of the line is to be in Pennington County, and the rest in Weston, Crook and Buffalo Counties, Wyoming. D. W. Hickey is Gen. Mgr., W. & M. R. R., Aladdin, Wyo.

ELECTRIC RAILWAYS.

PORTLAND, ME.—We are advised by Llewellyn Barton, Portland, that the Portland & Northern R. R. Co., lately incorporated to build an electric railroad in and through the cities of Portland and Westbrook and the towns of Windham, Raymond, Casco, Naples and Bridgton, Cumberland County, has begun surveys, and has secured part of the right-of-way. Construction will be all new work. It will be a standard gage line 40 miles long. Capital stock is $160,000. Howard Winslow, Portland, is Pes.; Ray W Philips is Ch. Engr., Portland. Noted on May 30.

NORWICH, CONN.—George E. Manning, Engr., Yantic, Conn., writes us that the Committee on Railroads has reported to the General Assembly in favor of the resolution incorporating the Norwich, Colchester & Hartford Traction Co., to build an electric railway from Norwich through Colchester, Bozrah, Lebanon, Marlboro and Glastonbury to a connection at East Hartford with line leading to Hartford. It will be about 39 miles long. There are five river crossings and one railroad crossing. A large part of the line requires but little grading. Company also seeks right to develop water power. Noted on March 14.

ROCHESTER, N. Y.—The Rochester, Scottsville & Caledonia Electric Ry Co. is planning several extensions to the proposed line, one of which is to Batavia, by way of Leroy and Stafford. Another proposed extension is to Pavilion, with a branch line past the Silver Lake Assembly and to Portage Park.

SYRACUSE, N. Y.—The action of the Common Council in granting the Syracuse Rapid Transit Ry. Co. permission to make extensions to three lines of the city railway system has been approved by the Board of Estimate and Apportionment. The company is given authority to extend the Court St. line to the city line and to lay an additional track in that street; to lay an additional track in Butternut St. to the city line and to double-track the Cortland Ave. line as far as the city line. C. Loomis Allen, Syracuse, is Gen. Mgr.

OSSINING, N. Y.—The Hudson River & Eastern Traction Co. will build an electric railway to connect Peekskill, Ossining and other towns along the Hudson River. The road will be completed in Ossining first, and then extended to Briar Cliff Manor, Pleasantville, Sherman Park, North White Plains and White Plains proper. The company has been awarded a franchise, which takes it to the White Plains line, and an application will be made to enter the village immediately, as a certificate of public necessity has been filed.

PATCHOGUE (L. I.), N. Y.—A. R. Applegarth, Constr. Engr., Patchogue, advises us that surveys have been made for an electric railway to run between Patchogue and Port Jefferson and Brookhaven and Babylon, for the Suffolk Traction Co., about 50 miles in all. T. L. Hughes, 5 Nassau St., New York, is Pres.

ROCHESTER, N. Y.—The State Railroad Commission has granted a certificate of necessity to the Buffalo, Genesee & Rochester Ry. Co. to build a double-track trolley line from Depew to Rochester. The company is authorized to issue a mortgage for $5,000,000 to finance the road. Its capital stock is $7,500,000. The road, as planned, will connect with the Buffalo & Depew Ry. near the Buffalo city line, where the Genesee St. line of the International Ry. enters Cheektowaga. Herbert P. Bissell is Atty.

HORNELL, N. Y.—Authority has been given by the State Railroad Commission to the Hornell, Bath & Lake Keuka Ry. Co. to build an electric street railroad from Hornell, through Bath and Hammondsport, Steuben County, to Branchport, Yates County, a distance of about 50 miles. The company has a capital of $1,000,000.

CLARKS SUMMIT, PA.—We are officially advised that surveys have been finished, right-of-way partly secured and capital pledged for the proposed electric railroad of the Clarks Summit & Lake Winola Street Ry. Co. The line will be eleven miles long. Thomas B. Rodham, North Main Ave., Scranton, Pa., is Pres.; J. D. Keator, Times Office, Scranton, is Secy. Noted on June 6.

FAIRMONT, W. VA.—The contract for construction of the Fairmont & Mannington R. R., 15 miles in length, has been let to the BLODGET CONSTRUCTION CO., of Wheeling, W. Va. It is to be in operation in November. The cost of construction will be about $400,000. F. H. Bailey is Gen. Mgr.

MERIDIAN, MISS.—The 24th Ave. line of the Meridian Light & Ry. Co. will be extended at once to Poplar Springs, a distance of three miles. The company announces that an immediate expenditure of $263,500 will be made in improvements. A. B. Paterson, Meridian, is Mgr.

PADUCAH, KY.—The stockholders of the Kentucky & Ohio River Interurban Ry. Co., projected from Paducah to Cairo, have made necessary arrangements for construction of this road. Contract will be let for the work immediately. The right-of-way for the line was secured several years ago, but construction was held in abeyance pending the necessary financial arrangements. The road will pass through McCracken and Ballard Counties.

TAYLORVILLE, ILL.—Contract has been awarded to J. W. BEARDSLY, of Houston, Tex., by the Springfield & Southeastern Traction Co. for constructing a line from Para through Taylorville to Springfield. Work will be completed within a year.

PARIS, ILL.—The Paris & Northern Traction Co., with the principal office at Paris, has been incorporated with a capital of $5,000 to construct a railway from Paris, Edgar County, Ill., through the counties of Edgar and Vermilion to Ridge Farm and Brocton, in Vermilion County, Ill. The incorporators and first board of directors are: F. L. Kidder, L. L. Caninne, John J. Cummings and J. E. Parrish, of Paris, Ill., and George E. Fair, of Chrisman, Ill.

CHICAGO, ILL.—Articles of incorporation of the Chicago & Wisconsin Traction Co. have been filed at Springfield, Ill. The company will construct an electric line from Chicago in a northwesterly direction to the Wisconsin line. The amount of capitalization is $10,000. The persons forming the corporation are: H. R. Yaryan, 348 Erie St.; Lewis E. Starr, 5119 Indiana St.; Walter F. Wandtke, 778 North Leavitt St.; Phillips P. Lynch, 542 44th St.; George W. Miller, 393 46th St., all of Chicago.

MILWAUKEE, WIS.—The COLUMBIA CONSTRUCTION CO. of Milwaukee has secured the contract for laying the double track for the Chicago & Milwaukee Electric R. R. on the South Side and will begin the construction work at once on Grove St. C. R. Fredericks is Gen. Supt.

DES MOINES, IOWA.—The American Electric Ry Co. has been acquiring right-of-way and franchises for an interurban road which will extend across Iowa from Muscatine to Council Bluffs. This line will be a portion of a system and a branch will connect this city with Indianola. The first construction work will begin out of Des Moines within 60 or 90 days. The line will enter Des Moines from the south at Spring Hill, a station about five miles south of Fort Des Moines. From Spring Hill a branch will continue south to Indianola, but the main line will be from Des Moines to Greenfield. The main points touched by new interurban are Muscatine, Sigourney, Oskaloosa, Knoxville, Des Moines, Indianola, Winterset, Greenfield, Fonatella, Griswold, Carson and Council Bluffs. C. W. Baker, Clapp Block, Des Moines, is Mgr.

GALLATIN, MO.—W. B. Rollins, of the W. K. Palmer Co., Engrs., Dwight Bldg., Kansas City, Mo., writes us that preliminary surveys probably will be commenced in three or four months for the proposed electric railway to be built between Hamilton, Mo., and Excelsior, Mo., 40 miles. The work will be new and reconstruction.

DENTON, TEX.—The Denton Street Ry. Co. has let the construction contract to Z. WIGGS to build four miles of line.

SPOKANE, WASH.—Construction work on the proposed line of the Big Bend Transit Co. from Spokane to the juncture of the Spokane and Columbia Rivers will begin in a short time, 80% of the right-of-way to Davenport, 57 miles, having been secured. It is purposed to extend the line to Rickey Falls, 65 miles. Seven miles of the roadbed has been graded.

VANCOUVER, WASH.—The Mayor has signed an ordinance granting a franchise to Walter H. Moore and associates to construct a street railway on Eleventh, Jefferson and Thirteenth Sts.

FRESNO, CAL.—The Fresno Traction Co. is preparing to construct a line on M St., from Inyo St. extending to the Poilasky track. The work of laying the tracks will begin at once. C. A. Jenkins, Fresno, is Supt.

SAN FRANCISCO, CAL.—We are officially advised that the General Electric Power Co. of California, head office, Granite Bldg., Rochester, N. Y., will construct an electric railway from San Francisco to Lakeport, Cal., a distance of 130 miles. Power is to be developed on the Mokelumne River. Surveys have been completed and right-of-way has been obtained. The general contract for construction has been let to WALSTON H. BROWN & BROS., 45 Wall St., New York, N. Y. William H. Underwood, Rochester, is Pres., John Bogart, 16 Exchange Pl., New York, is Engr.

NEW WESTMINSTER, B. C.—An application has been made to the City Council by the Burrard, Westminster & Boundary Ry. & Navigation Co., which plans to build an electric railroad to Seattle from this city. Sir Charles Hibbert Tupper is Atty.

LIGHT AND POWER PLANTS.

(• denotes that this work is advertised in Engineering News.)

PORTSMOUTH, N. H.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded to the GREEN FUEL ECONOMIZER CO., contract for furnishing power plant apparatus at the Navy Yard, Portsmouth, at $13,938.

NEW YORK, N. Y.—The following bids were received June 27 by the Department of Parks for installing electric equipment, elevators, lifts, book conveyors and pneumatic tubes, in the New York Public Library, Astor, Lenox and Tilden foundations, Fifth Ave., 40th and 42d Sts.: John Pierce Co., $198,000; Tucker Electrical Construction Co., 35 South William St., New York, $195,651; Peet & Powers, 225 4th Ave., New York, $228,000; Chas. L. Eidlitz & Co., 1168 Broadway, New York, $234,684; Johnston Livingston, Jr. & Co., 113 East 22d St., New York, $208,000; Ries & O'Donovan, 1123 Broadway, New York, $209,440; Harry Alexander, 20 West 34th St., New York, $186,000; Wiston Electric Co., $181,449; Lord Electric Co., 213 West 40th St., New York; $173,891; Commercial Construction Company, 114 East 28th St., New York, $207,000.

COEYMANS, N. Y.—The Town Board has awarded to the ATLANTIC LIGHT & POWER CO. contract to light the villages of Ravena and Coeymans for five years. The company's bid was $20 for each 30 candle-power incandescent lamp. The Upper Hudson Electric Co. bid $13 per lamp for the village of Coeymans only, but its bid was rejected.

WASHINGTON, D. C.—Bids were received as follows by the Signal Corps, War Department, Washington, for a motor generator according to specifications: Crocker-Wheeler Co., Ampere, N. J., $4,715, switchboard for same $715; General Electric Co., Baltimore, Md., two bids (a) $6,695, (b) $6,100; Westinghouse Electric & Manufacturing Co., Baltimore, Md., $6,274.

The Washington Gaslight Co., 411-417 Tenth St., N. W., has awarded contract to KERR-MURRAY MANUFACTURING CO., Fort Wayne, Ind., for construction of steel-plate gas holder 93.6 feet in diameter and 25.6 feet at its plant at Georgetown, D. C., to cost $30,000.

CHARLESTON, W. VA.—The South Charleston Water & Light Co. has been incorporated with capital stock of $100,000, to supply electricity and gas for fuel and lighting purposes, to operate street car lines and to furnish water, etc. F. M. Staunton, E. T. Crawford, W. L. Ashby are incorporators.

WEST POINT, GA.—Surveys are now being completed for constructing proposed water-power electrical plant to be located on Chattahoochee River near West Point. This power is to be transmitted by electricity for operating cotton mills, railways and other plants. Messrs. Stone & Webster, 84 State St., Boston, Mass., will finance the company, which will own and operate the plant.

SCOTTSBORO, ALA.—A movement is on foot to establish electric light plant in this place.

NEWTON, ALA.—A water-power property near Newton will be developed to generate electricity for transmission to nearby towns, for power and lighting purposes. This is planned by the Killebrew Power & Manufacturing Co., capitalized at $200,000 and incorporated lately by A. E. Killebrew, E. S. Killebrew and W. D. Wood, of Newton. J. E. Sirrine, of Greenville, S. C., has been engaged as the engineer in charge of plans and construction. The company will be in the market for the water-wheels, electrical machinery and dam construction materials.

CANTON, MISS.—The city is considering enlarging and improving electric-light plant, the betterments to include changing system from 60 to 133 cycles and replacing present machines by a direct connected outfit.

MERIDIAN, MISS.—The Meridian Light & Railway Co. proposes to increase its capital to $2,000,000 for the purpose of extending the electric railway and lighting plant. A. J. Patterson, Mobile, Ala., is Pres.

LOUISVILLE, KY.—Bids are being received by the Kentucky Electric Co. for constructing electric plant. Estimated cost, $800,000. Donald McDonald is Pres.

PRINCETON, IND.—The Consumers Gas Co. has awarded contract for construction of artificial gas plant to the PRACTICAL GAS CONSTRUCTION CO., of Chicago. Cost, $60,000.

VINCENNES, IND.—The Hydro-Electric Co. has been incorporated with capital stock of $10,000 by Eugene Rush, Lucius Embree and associates. The company is planning to erect a dam over the river at Decker.

PAW PAW, MICH.—The Village Trustees have let contract for constructing hydro-electric power plant and dam on Paw Paw River, and for certain water-works improvements, to the FALKMAN ELECTRICAL CONSTRUCTION CO of Chicago. Wm. H. Mason is Village Clk.

CHICAGO, ILL.—The Northern Illinois Electric Co. has been incorporated with capital stock of $250,000 to operate light and power plant. Leander D. Forden, Edward Kloss and others are incorporators.

ATWOOD, ILL.—The citizens are considering erecting municipal electric light plant.

LEBANON, ILL.—Bids are asked until July 8 by the City Clerk for furnishing engine for municipal electric light plant. Owen Ford, 710 Security Bldg., St. Louis, Mo., is Consult. Engr.

JACKSON, MO.—Plans and specifications for constructing complete water and light plant, as advertised, are on file at office of Engineering News, New York. Bids are asked until July 9. Hiram Phillips, Frisco Bldg., St. Louis, Mo., is Consult. Engr.

LIVINGSTON, TEX.—The Livingston Electric Light Co. has been incorporated with capital stock of $2,000 by H. B. Davis, J. E. Hills, Jr., and associates.

LAWTON, OKLA.—G. S. Stephenson, of Ansonia, Ohio, will erect gas plant. Estimated cost, $50,000.

WATERVILLE, WASH.—The City Council has passed the ordinance granting franchise to the Waterville Colling Co. permitting it to use the streets and alleys of the town to maintain an electric line to operate the mill.

CHEWELAH, WASH.—City will erect a water and light plant to cost $14,000 to be completed by October 1.

SAN FRANCISCO, CAL.—We are officially advised that the General Electric Power Co. of California, head office at Rochester, N. Y., will develop a water f... the Mokelumne River, abo... here, to supply electric... power and railway purpo... towns within a radius of ... estimated that 69,000 HP. ... The dam will be built ab... which will force the water ... or natural reservoir cove... acres. An electric railway w... by the company connecti... with Lakeport, 130 miles ... have been completed and ... been secured for construc... WALSTON H. BROWN & ... St., New York, have genera... construction work and no la... will be let. Work probably ... in the fall. The total cos... $10,000,000. The officers a... Underwood, Rochester, N. ... Scott, W. H. Underwood, A. ... W. Peltier, G. C. Calden, H. ... Craig, M. E. Wolff, G. W. ... Casey and J. S. Campbell, ... Bogart, 16 Exchange Pl., New ... caird, Waller, Manville & ... England, Engrs.

TURLOCK, CAL.—The St... Construction Co. has applied to the ... of Supervisors for a franchise to ope... an electric light plant. The company ... work on the construction of ... plant, and at first will furnish electricity ... for commercial and residence lighting, ... later supply the town, which at present ... not incorporated. Noble D. Powell, of ... Stockton, will have charge of installing the ... plant.

ALAMEDA, CAL.—The plans of the Municipality's Electrical Committee call for construction of fireproof building, installing unit, boiler, and extending the power and electric city service. The estimated cost is $58,000. In case the $58,000 is allowed, $18,000 will be expended on the new building, $25,000 for the new unit, $6,000 for boiler, $1,800 for improvements to power service, and $1,500 for improving the lighting service.

FRESNO, CAL.—The Fresno Mutual Electric Light Co. has applied to the Board of Trustees for a franchise to erect and maintain transmission lines and conduits for the distribution of electricity on certain streets of the city for a term of 25 years. Bids for the above franchise will be received by the Board of Trustees until July 15.

COLUSA, CAL.—The County Board of Supervisors has granted franchise to Charles Glenn, A. S. Lindstrom and C. R. Wickes to erect poles and wires for transmission of electricity for light, heat and power along the county roads.

SAN MATEO, CAL.—W. J. Martin, representing the South Francisco Power Co., has applied for franchise to supply electricity for heat and power throughout the first township.

TORONTO, ONT.—Plans for distributing power plant, involving an expenditure of about $5,000, will be commenced soon. It will be necessary to lay out overhead lines and find out cost of sub-stations, as well as the power required.

RAYMOND, ALTA.—The town will install an electric lighting system and improve the water-works.

VICTORIA, B. C.—A power house will be erected in connection with the Canadian Pacific Ry. hotel at Victoria, B. C. Estimated cost, $40,000.

BRIDGES.

(• denotes that this work is advertised in Engineering News.)

NEW YORK, N. Y.—Bids are asked by the Department of Bridges, James W. Stevenson, Comr., until 2 p. m., July 18, for furnishing and delivering spruce plank for the Brooklyn Bridge.

BETHLEHEM, PA.—At a recent joint meeting of the Commissioners of Northampton and Lehigh Counties, it was decided to construct reinforced concrete bridge across Monocasy Creek between Bethlehem and West Bethlehem. The bridge will be 60 ft. wide, with two 8-ft. sidewalks and two trolley tracks in the center, about 400 ft. long and 67 ft. above water level, and five arches of about 80-ft. span will probably be used in construction. Estimated cost, $100,000. When plans are proved the contract will be let by Northampton County. L. A. Francisco, County Engr. of Northampton County, and R. S. Rothbun, County Engr. of Lehigh County, are preparing plans and specifications.

MARLINTON, W. VA.—Bids will soon be asked by the County Commissioners for constructing three highway bridges across Greenbrier River, one at Sitlington, one at Cass and one at Cloverlick; each bridge will be about 200 ft. span and rest on concrete abutments. Williams Bros. are Engrs.

SPARTANBURG, S. C.—Bids are being received by the Charleston & Western Carolina Ry. Co. for concrete work in connection with renewal of trestle on South Tyger River, in South Carolina, and to include a 540-ft. steel viaduct. This will necessitate 340 tons of steel work, 800 yds. of concrete, 900 yds. of excavation and 1,600 yds. of embankment. A. H. Porter, at Augusta, Ga., is Engr. of Roadway.

COVINGTON, LA.—The Baton Rouge, Hammond & Eastern Ry., now under construction from Baton Rouge to Covington, has awarded contract for erection of steel bridges to the AMERICAN BRIDGE CO., 42 Broadway, New York, and to the LIONBURGER-ROBINSON CO., for trestle and frame bridge work. C. H. Fisk, at New Orleans, La., is Ch. Engr.

•HATTIESBURG, MISS.—Bids are asked until 8 p. m., July 31, for constructing superstructure of four steel highway bridges over Cordons Creek. J. H. Putnam is City Engr.

HUNTINGTON, IND.—Bids are asked by the County Commissioners until July 8 for construction of two concrete arch bridges and nine stone and concrete abutments.

CLEV[illegible]ND, OHIO.—Bids are asked by the Board of County Commissioners, Julius C. Dor[illegible] until 11 a. m., July 13, for constr[illegible] bridge work per report No. 1579, [illegible]rv[illegible]ndence Township. A. B. Lea is Cou[illegible]rv.

SID[illegible] OHIO.—Bids are asked by the County [illegible]missioners until noon, July 13, for co[illegible]ng 80-ft. span high truss single track [illegible] over Nine Mile Creek. The bridge [illegible] paved with brick and roadway 16 ft. [illegible] J. C. Rosser is County Audr.

JEF[illegible]ON, OHIO.—Bids are asked by the C[illegible] Commissioners until 1 p. m., July [illegible] for constructing substructure of steel b[illegible]ge over Conneaut Creek at Middle Road. [illegible]eaut Township.

BLU[illegible]N, IND.—Bids are asked by the County [illegible]missioners until July 13 for construc[illegible] of 19 bridges, spans varying from 14 to [illegible] C. S. Brineman is County Audr.

DAN[illegible]LE, IND.—Bids are asked by the County Commissioners until 10 a. m., July 8, for constructing four bridges and repairing bridge in Guilford Township. D. D. Mills is County Audr.

EVANSVILLE, IND.—The Evansville & Terre Haute R. R. contemplates constructing bridge across Ohio River at Evansville. Estimated cost, $2,000,000. J. W. Hunter, at Evansville, is Dir. Engr.

EVANSVILLE, IND.—Bids are asked by the Board of County Commissioners until 10 a. m., July 8, for constructing four concrete bridges and two abutments for bayou bridge and repairing bridge across Pigeon Creek, at Blue Grass Road. Harry Stinson is County Audr.

HUNTINGTON, IND.—The County Commissioners have adopted plans and specifications for constructing bridges and abutments in various parts of the county.

GRAND RAPIDS, MICH.—The JOLIET BRIDGE CO., of Saginaw, Mich., has been awarded contract for constructing Ann St. bridge, at $36,500. L. W. Anderson is City Engr.

DANVILLE, ILL.—Council is considering the reconstruction of Main St. bridge. W. H. Martin is City Engr.

GRINNELL, IOWA.—The Rock Island Co. will construct steel and concrete bridge on the county line near Grinnell. Cost, $3,250. B. F. Yoakum, 71 Broadway, New York, is Chn.

WAUKON, IOWA.—The Board of Supervisors has let contract for constructing bridge across Iowa River to J. G. Ratcliffe, of this city, for $5,100.

FARGO, N. DAK.—Bids are being received, it is reported, by the County Auditor for the following bridge work, constructing and repairing bridges: Stanley Township, between Sections 5 and 6, new bridge, 100 ft. in length; Leonard Township, between Sections 25 and 26, new bridge, 40 ft. long; Amenia Township, new bridge, northeast corner of Sections 15-140-51, 440 ft. long; Reed Township, between Sections 29 and 32, new bridge, 30 ft. long; between Sections 7 and 8, repair bridge 170 ft. long with 3-in. planks; between Sections 13 and 19, new bridge, 150 ft. long; Buffalo Township, between Sections 24 and 25, new bridge, 60 ft. long; Barnes Township, between Sections 25 and 26, repair bridge 70 ft. long with 3-in. planks; repair bridge 120 ft. long with 3-in. planks; repair bridge 100 ft. long with 3-in. planks, and put in new stringers; Amenia Township, between Sections 27 and 28, new bridge, 120 ft. long; between Sections 24, Amenia Township, and Sections 19, Rush River Township, new bridge, 60 ft. long; between Section 30, Amenia Township, and Section 31, Rush River Township, bridge 20 ft. long; Watson Township, between Sections 8 and 9, new bridge, 100 ft. long.

GLASGOW, MONT.—The County Commissioners have selected a site for bridge to be constructed across Rock Creek, and bids will soon be asked.

HANNIBAL, MO. — The MISSOURI BRIDGE & IRON CO., of St. Louis, Mo., has secured contract for constructing steel bridge across Bear Creek. Charles Schultz is City Engr.

BASTROP, TEX.—Many of the bridges destroyed by floods in Bastrop County will be reconstructed.

WALLISVILLE, TEX. — The bridges in Chambers County recently destroyed by floods will be rebuilt.

MONTROSE, COLO.—The Secretary of the Interior has approved contract entered into between I. W. McConnel, acting on behalf of the United States and SMITH BROS., of Montrose, Colo., at $18,254, whereby the latter agrees to construct and complete portion of the South Canal, lying about nine miles southeast of Montrose, in connection with the Uncompahgre Irrigation project, Colorado, including pipe culvert and concrete piers for highway bridges. The work involves the excavation of 54,800 cu. yds. of material.

ELLENSBURG, WASH.—T. H. FERRIER has been awarded contract for construction of the Slough bridge in sec. 10, T. 17, R. 18.

EVERETT, WASH.—The EVERETT CONSTRUCTION CO. has been awarded contract for constructing trestle on Ebey Island Road.

SPOKANE, WASH.—Charles McIntyre, City Engr., has prepared estimates of the costs of new bridges to be erected by the city, as follows: For steel structure on Washington St., 1,224 ft., with 48-ft. roadway, $380,000. For reinforced concrete bridge, 40 ft. wide, with asphalt and brick paving, $264,000. Bridge over north channel of Howard St., 252 ft. long and 40 ft. wide, built of reinforced concrete, $38,000. The estimate for the Stevens St. bridge, 152 ft. long, with steel girders, is $9,900. For the Mission Ave. bridge the figures are $58,050 for reinforced concrete structure, $51,040 for steel structure and $29,852 for wood and steel bridge. For reinforced concrete bridge on Monroe St., 990 ft. long and 50 ft. wide, the estimate is $320,000.

DAVENPORT, WASH.—Bids are asked by the County Commissioners until July 8 for constructing the following bridges: One 46-ft. wooden span Howe truss, rock butments, over Crab Creek. One 30-ft. "A" wooden truss, one 45-ft. approach on bents on south end and one 30-ft. approach on bents on north end, over Rock Creek. One 80-ft. wooden span Howe truss, one 46-ft. wooden span Howe truss with approach between on bents 38 ft. long, rock butments, over Crab Creek. One 32-ft. wooden span Howe truss, rock butments. One 32-ft. wooden span Howe truss, rock butments over Crab Creek. One 100-ft. wooden span Howe truss across Spring Creek. One 32-ft. wooden span Howe truss with rock butments over Crab Creek.

SALEM, ORE.—Bids are asked by the County Commissioners of Marion and Clackamas Counties until 1 p. m., July 5, for constructing 100-ft. span Howe truss bridge, resting on concrete piers, together with 64 ft. of approach, across Butte Creek on line between Marion and Clackamas Counties. M. A. McCorkle is Roadmaster of Marion County.

PENDLETON, ORE.—Bids are asked by the County Court until July 10 for constructing two steel bridges, one at Salisbury across McKay Creek and other at Milton across Walla Walla River.

REDDING, CAL.—Bids are asked by the Board of Supervisors, S. N. Witherew, Clk., until 11 a. m., July 11, for constructing stringer bridge across Pit River.

UKIAH, CAL.—Bids are asked by Hall McCowen, Clk. Bd. of Supervs., until noon, July 15, for constructing bridge across Novarro River.

WILLOWS, CAL.—Bids have been received by the Board of Trustees for constructing bridge across Grindstone Creek as follows: Healy-Tibbets Co., $16,140; PACIFIC CONSTRUCTION CO., $11,900 (awarded contract); Meroy Elwell Co., $15,425; Hyde, Harjes & Co., $12,800; Burrell Construction Co., $12,745, and Cotton Bros., $12,780.

GRANGEVILLE, IDAHO.—Bids are asked by the Board of County Commissioners until July 8 for constructing wagon bridge across Long Hollow, in Sec. 19, Tp. 31, R. 8 E.

Bids are asked by J. M. Baldwin, Overseer of Road District No. 34, until July 8, for constructing wagon bridge near south fork of Clearwater River and over Cottonwood Creek.

VICTORIA, B. C.—J. D. McDonald will build trail for the Marine Department on west coast of Vancouver Island, between Carmanah and Banfield Creek. About 20 bridges, of which several will require Howe trusses, will be built.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Plans have been filed with the Buildings Superintendent for an 11-story loft building, with ground floor stores, to be erected at Nos. 33 and 35 West 17th St., for the Meteor Realty Co. It will have 50 ft. frontage and a depth of 87 ft., with an extension. The facade will be of brick, with trimmings of limestone and terra cotta, and the building will cost $250,000. Schwartz & Gross, 35 West 21st St., are Archs.

The following bids were received July 1 by C. B. J. Snyder, Supt. School Bldgs., for installing heating and ventilating apparatus in new Public School No. 16, on east side of Sycamore Ave., between Lake and Park Sts., Corona, Boro. of Queens: E. Rutzler & Co., 127 White St., $39,000; R. J. Sovereign & Co., 63 Fifth Ave., $38,120; Blake & Williams, 21 West 20th St., $37,727; Baker, Smith & Co., 83 West Houston St., $36,996; Frank Dobson, 319 East 53d St., $37,350.

Plans have been filed at the Building Department for a 6-story office building to be erected at the corner of Broadway and 46th St. by the Forty-sixth Street & Broadway Realty Co. The structure will adjoin the 3-story theater at 200 to 206 West 46th St., which is part of the same enterprise, and for which plans have been filed. The office building will have a Broadway frontage of 128 ft., and through it there will be an entrance to the theater. It is to cost $100,000, and the theater $130,000. Herts & Tallant, 113 East 19th St., are Archs.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 11 a. m., July 15, for general construction of Public School No. 83, at the corner of Herkimer St. and New York Ave., Boro. of Brooklyn; for repairs to heating and ventilating apparatus of Public School No. 96, on Ave. A, between 81st and 82d Sts., Boro. of Manhattan; for general construction of Public School No. 56, at the corner of Orchard Ave. and Elm St., Richmond Hill, Boro. of Queens.

ITHACA, N. Y.—Bids were opened on July 1 as follows at the office of the Supervising Architect, Washington, D. C., for construction of a post-office building at Ithaca, New York: Fissel & Wagner, 1133 Broadway, New York, $101,978, time, Dec. 31, 1908; Clenrence Construction Co., Syracuse, N. Y., $109,859; time, Dec. 31, 1908.

ATLANTIC CITY, N. J.—The John D. Allen Co., Betz Bldg., Philadelphia, Pa., has completed plans for a 13-story theater and hotel building, to be erected for George B. Burch, at the corner of Arkansas Ave. and the Boardwalk, Atlantic City. The building will measure about 207.6 × 318.11 ft., and will be constructed of a structural steel frame, inclosed with brick and Indiana limestone trimmings. About half of the first floor will be taken up by the theater, which will have a parquet, balcony and gallery, and a stage measuring 74.9 × 40 ft. The remainder of the first floor will have three stores and a large palm garden. The floors above will have about 500 rooms, each with its own bathroom. There will also be a Turkish bathroom, a sun parlor, banquet halls, dining rooms and offices. The building will cost about $1,500,000, and will be known as the Hotel Aster.

PHILADELPHIA, PA.—JOHN R. WIGGINS & CO., 1215 Filbert St., Philadelphia, have the contract for and will start work at once on erection of the structure which is to be built at Chestnut and Sansom Sts. for Oliver H. Bair, from plans and detailed specifications by John T. Windrim, Arch., Commonwealth Bldg.* It will be a 5-story building, measuring 55 × 235 ft., and will be built of brick, stone and iron, fireproof, with steam heat, electric light, elevators, etc. The cost will be about $300,000. Contracts for interior fixtures will be let separately.

WASHINGTON, D. C.—The Mount Vernon Pl. M. E. Church South, W. F. Locke, Pastor, 1343 15th St., N. W., has purchased site at corner Massachusetts Ave., K and Ninth Sts. N. W., and will erect church building to cost about $275,000.

Bids are asked until 10 a. m., July 16, by the Bureau of Supplies and Accounts, Navy Dept., Washington, for constructing additions to the Naval Hospital, foot of 24th St. N. W., Washington, symmetrical with the northeast pavilion solarium, and connecting corridor. Wood, Donn & Deming, 808 17th St. N. W. are Archs. E. B. Rogers is Paymaster Gen., U. S. N.

VIRGINIA BEACH, VA.—The Princess Anne Investment Co., C. A. Neff, Pres., will erect a hotel at a cost of $200,000 to replace the Princess Anne Hotel, lately burned at a loss of $135,000.

JACKSONVILLE, FLA.—Bids are asked until July 20 by the Bldg. Com. for furnishing material and erecting the 7-story Masonic Temple and office building. Probable cost, $110,000. L. M. Weathers Co. are Archs., Memphis, Tenn.; George L. Drew, 106 Main St., is Secy.

A building will be erected soon at West Bay St. by the Trades Building Co., of Jacksonville. Fred W. King is Pres.; Thomas M. Palmer, Secy., and Charles H. Mann, Treas. The building, which will front on Bay St., will be of pressed brick and stone, and will contain nine stores. The second story will be used for wholesale purposes, as well as a 2-story warehouse in the rear, which will run parallel with Seaboard Air Line tracks for 400 ft., and which will be 60 ft. wide.

TUSCUMBIA, ALA.—Bids are asked until noon, July 15, by the Commissioners of Colbert County for erecting a county jail. E. J. Ostling, Montgomery, Ala., is Arch. Oscar G. Simpson is Chn. County Comrs.

NEW ORLEANS, LA.—Bids probably will be called for in September for the erection of Monte-Cone Hotel, to cost about $500,000. Toledano & Wogan, 830 Canal St., New Orleans, are Archs.

BLOOMINGTON, IND.—The Trustees of Indiana University have let the contract for the erection of an addition to Maxwell's Hall to W. F. STILLWELL, of Lafayette, at $146,000. William L. Bryan is Pres.

SUPERIOR, WIS.—The Board of Education has accepted the plans of Earl W. Barber, of Superior, for the 2-story brick and stone high school, 170 × 174 ft., which is to cost about $200,000.

MASON CITY, IOWA.—Bids are asked by James Knox Taylor, Superv. Arch., Washington, D. C., until 3 p. m., Aug. 12, for the construction, including plumbing, gas-piping, heating apparatus, electric conduits and wiring, of the U. S. post-office at Mason City.

DES MOINES, IOWA.—F. M. Hubbell, Son & Co. will erect a 4-story building on the quarter block at the corner of Eighth and Walnut Sts. The building will cost approximately $125,000, and will be substantially built, so that two more stories may be added if necessary.

TOPEKA, KAN.—The contract to erect a 5-story newspaper building at Eighth and Jackson Sts. for Arthur Capper, has been awarded to FRANK M. SPENCER, at $128,500, not including plumbing, wiring and elevators. Holland & Squires, 734 Kansas Ave., are Archs.

WICHITA, KAN.—The Atchison, Topeka & Santa Fe Ry. Co. will expend about $200,000 in erecting a passenger station here. J. E. Hurley is Gen. Mgr., Topeka.

MINNEAPOLIS, MINN.—J. L. Robinson, 205 South Seventh St., City, was the lowest bidder on the general construction of the 15-story office building, to be built for J. E. Andrus on First Ave. South, near Fifth St., at $288,143. H. Kelley & Co. was the lowest bidder on the heating, at $27,512, and W. I. Gray & Co. on the electrical work, at $17,250.

DULUTH, MINN.—McCLOUD & SMITH, Torrey Bldg., have secured the contract to remove the present buildings and to erect an 8-story office building, 60 × 110 ft., on Second Ave., West, and Superior Sts. The cost of the new building is to be about $150,000.

CROOKSTON, MINN.—Bids are asked by James Knox Taylor, Superv. Arch., Washington, D. C., until 3 p. m., Aug. 5, for construction of the proposed U. S. post-office building at Crookston.

ST. JOSEPH, MO.—GEORGE B. SWIFT CO., 188 East Madison St., Chicago, Ill., has secured the contract to erect the freight depot here for the Chicago, Rock Island & Pacific Ry. Co., at about $125,000. The building is to be two stories high, 820 ft. in length, and is to be erected on Messanie St. J. B. Berry is Ch. Engr., Chicago.

ST. LOUIS, MO.—The Masonic Sanitarium & Training School Co. has awarded contract for construction of concrete sanitarium and training school to the ST. LOUIS GRANITOID CO., 16th St. and Lafayette Ave. On other departments of building separate bids will be taken. Building will be fireproof; 60 × 104 ft., with reinforced concrete columns, beams, girders and floors, press brick curtain walls, metal door and window frames and finish, steam heat, gas and electric lighting. Cost, $125,000. W. A. Cann, 1023 Missouri Trust Bldg., is Arch.; Dr. James M. Ball, 4500 Olive St., is interested.

KANSAS CITY, MO.—Jarvis Hunt, Arch., Monadnock Bldg., Chicago, Ill., is preparing plans for a union station to be built here at a cost of between $2,500,000 and $3,000,000. The exterior will be of stone and the outside dimensions will be 515 × 167 ft. The train shed will have a width of 166 ft., and will be 335 ft. long. The general lobby will have an arched ceiling 115 ft. high, and the interior is to be of marble 70 ft. up, with columns on either side of the passageways leading into other portions of the building. The general waiting-room and lobby are to contain 67,000 sq. ft., the baggage-room 40,000, the mail-room 50,000, and the express room 65,000 sq. ft. The interior walls are to be provided with white glazed terra cotta, made up in ashlar form to the ornamental cornices, on which will rest the arches of the grand lobby and of the waiting room. The train shed will be provided with twelve tracks, each 2,800 ft. long, and each capable of accommodating two 20-car trains. Provision is made for the addition of twelve tracks, bringing the total up to 24.

FORT SAM HOUSTON, TEX.—Contracts for erection of buildings in the brigade post addition have been awarded as follows: HENRY D. RHEINER & BRO., San Antonio, Tex., at $122,125; ZIEGLER & DALTON, Junction City, Kan., at $278,973; M. S. WRIGHT, Leavenworth, Kan., at $226,400; GRAEBER BROS., Lawrence, Kan., at $32,250; A. H. SHAFER, San Antonio, Tex., at $48,580, and WILLIAM A. CARRAO ELECTRIC CO., St. Louis, Mo., at $119,689. L. J. Fleming is Constr. Q. M.

SAN ANGELO, TEX.—Plans for the passenger station and office building of the Kansas City, Mexico & Orient Ry. Co., to be erected in San Angelo, have been completed by Albert T. Canfield, Asst. Engr. Building will be 35 × 120 ft., and two stories high. On the first floor will be the waiting rooms, ticket office, baggage room, express office and lavatories. On the second floor will be the general offices of the company. The building will be built of gray brick, with red terra-cotta trimmings and red tile roof. It will be erected by company forces. Ira C. Hubbell, 722 Bryant Bldg., Kansas City, is taking bids for the materials.

HOUSTON, TEX.—Arrangements for an 8 or 10-story office and mercantile building to be erected on the Lane property, corner of Prairie Ave. and Fannin St., are under consideration. The building will be steel, granite and brick. Texas granite will be used for the walls for the two ground stories. The two lower floors will be so erected as to be suitable for mercantile or department store purposes, and the upper floors will be for offices. The building will cover the entire plot of ground, 150 ft. on Prairie Ave. and 100 ft. on Fannin St. The estimated cost is $330,000.

OAKLAND, CAL.—Plans for the exterior of the hotel to be erected on 13th, 14th, Harrison and Alice Sts. have been completed by H. J. Hardenbergh, 1 West 34th St., New York, N. Y. The building will cost $2,000,000, and will be built by the Oakland Hotel Co. The directors of the company are: W. W. Garthwaite, Edson F. Adams, W. G. Palmanteer, W. G. Henshaw, P. E. Bowles, Thomas Prather, D. Edward Gollins, H. C. Capwell and J. C. McMullen.

SAN FRANCISCO, CAL.—The Hyman Bros. Co. has made application for a permit to erect a 3-story Class A building on the corner of O'Farrell and Stockton Sts., at a cost of $275,000.

The Westbank Co. has applied for a permit to erect an 8-story reinforced concrete office building at Market and Ellis Sts., to cost $200,000.

PHOENIX, ARIZ.—CARL LEONARDT, of Los Angeles, Cal., has the contract for erecting a 4-story concrete store and office building for John Noble. Estimated cost, $125,000. Harrison Albright, of Los Angeles, is Arch.

MOSCOW, IDAHO.—Bids for construction of the new administration building at the University of Idaho have been rejected by the Board of Regents. The bids for the main structure and the left wing of the building were as follows: M. C. Murphy, Spokane, $239,700; Hastie & Dugan, Spokane and Seattle, $242,792; Campbell Bros., Salt Lake City, $239,000. Bids were also opened for the building as a whole and were as follows: M. C. Murphy, $293,000; Hastie & Dugan, $297,580; Campbell Bros., $291,500.

KENORA, ONT.—CARTER, HALLS, ALDINGER & CO., of Winnipeg, Man., have secured contract for the erection of a hotel at Kenora for C. F. Bunnell, Clarendon Hotel, Winnipeg, at $225,000.

CALGARY, ALTA.—George McNeil, of Calgary, has completed arrangements for erection of a 7-story brick and stone apartment block. Estimated cost, $150,000. Work will be started as soon as contracts have been let.

VANCOUVER, B. C.—The Arcade building at the corner of Hastings and Cambie Sts., Vancouver, will be replaced by J. A. Weart with a 14-story building, to cost $450,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

*BURLINGTON, VT.—Bids are asked by the Filtration Commission, J. W. Goodell, Secy., until 2 p. m., July 22, for constructing mechanical filter plant. The work includes a covered reinforced concrete coagulating basin of about 250,000 gallons capacity; four concrete filter tanks, each of a net area of filtering surface of 200 sq. ft.; a clear water basin beneath the filters having capacity of about 100,000 gallons, together with all appurtenances and piping connections to the neighboring water pumping station. Jow lift centrifugal pumps, wash water pumps, etc. Hering & Fuller are Engrs.

EAST BOSTON (Boston post-office), MASS.—The National Dry Dock Co., of East Boston, has let contract to C. W. DOLLOFF & CO., 20 Central St., Boston, for laying water and sewer pipes, two catch-basins and setting gates and hydrants.

*NEW YORK, N. Y.—Bids are asked by the Board of Water Supply, Thos. Hassett, Secy., until 2 p. m., Aug. 6, for constructing main dams for Ashokan Reservoir near Brown's Station, in the Towns of Olive and Marbletown, Ulster County. For estimate of work see advertisement. J. Waldo Smith is Ch. Engr.

NEW YORK, N. Y.—Bids are asked by the Department of Water Supply, Gas and Electricity, John H. O'Brien, Comr., until 2 p. m., July 11, for furnishing, delivering and laying water mains in New Chambers, Water, Oliver, Henry and Pike Sts. and James Slip.

BREWSTER, N. Y.—A bill passed by the Legislature has been approved by Charles E. Hughes, Governor, becoming Chapter 437 of the Laws of 1907, authorizing the village of Brewster to issue bonds to pay the cost of establishing system of water-works for supplying water to the village. The Board of Trustees and citizens already have approved the project. The cost of the water-works system is not to exceed $50,000.

CARTHAGE, N. Y.—The Board of Water Commissioners has let contract for constructing water-works system to H. B. FAILING, of Baldwinsville, for $58,842. Bids were also submitted by Field, Barker & Underwood, of Philadelphia, Pa., $60,035; E. D. Bennett, of Pulaski, $71,192, and Burns, Haley & Burns, of Watertown, $80,888.

NORFOLK, VA.—An ordinance has been introduced appropriating $25,000 for purchase of 1,000 water meters. W. T. Brooke is City Engr.

SPEED'S ADDITION (Speed post-office), MISS.—Bids are asked by the Board of Mayor and Aldermen until August 6 for erection and sale of complete water-works system or maintenance of water-works and water supply for public and private use. T. T. Barber is Town Clk.

DE QUINCY, LA.—Bids are being received for an 8-in. deep well in connection with the municipal water-works and electric light plant. C. H. Jenks, Fayette, Miss., is Consult. Engr.

COLLINSTON, LA.—Bids are asked by Windsor Pipes, Secy., until July 13, for constructing drainage canal, including clearing right-of-way. The work consists of about 198,416 yds. of excavation. L. L. Hidenger is U. S. Drainage Expert, at Washington, D. C.

MEDINA, OHIO.—We are officially advised that T. C. BROOKS & SONS, Jackson, Mich., on June 21, secured contract for supplying water pipe and developing natural filter at Medina, at $25,300. E. G. Bradbury and G. P. Shute, Columbus, Ohio, are Engrs. The itemized bids may be found under Contract Prices this week.

MARION, OHIO.—The Marion Water Co. will construct three miles of pipe line extensions this year. Estimated cost, $22,000.

BARNESVILLE, OHIO.—The town is considering the advisability of erecting a $5,000 elevated tank for use in connection with the water-works system.

LAGRANGE, IND.—Contract for construction of drainage ditch in Milford Township has been let to GEORGE CONEY, of South Milford, Ind. Harry Bingham is Supt. of construction.

*LOGANSPORT, IND.—Contract for constructing 7-mile dredge ditch has been let to MYRON B. SPENCER, of Monticello, Ind., for $29,760. A. C. Davisson, Rochester, Ind., is County Surv.

EVANSVILLE, IND.—Bids are asked by the Board of Public Works until 10 a. m., July 8, for construction of ten bored wells in various portions of the city. Wells to be from 75 to 110 ft. deep. W. F. Wunderlick is City Clk.

ALMA, MICH.—WM. A. HOWE, of this city, has been awarded contract for extending mains, pipes and placing hydrants and 4-in. gate valves on Superior St. D. W. Adam is City Clk.

STAMBAUGH, MICH.—Water-works will be constructed. Cost, $10,000.

DECATUR, ILL.—Council has employed an engineer to estimate cost of improving water system, who recommends laying 30,000 ft. of 6-in. water mains, in addition to 20 blocks of 12-in. pipe and four blocks of 16-in. pipe. Albert Leach is City Clk.

SHERRARD, ILL.—Bids are being received for material for constructing water-works system. C. E. Peterson is Village Clk.

WAUKEGAN, ILL.—The Board of Local Improvements has let contract to C. E. WILLIAMS, Grand Rapids, Mich., for constructing 6-in. cast-iron water supply pipes in various streets, at $11,627.82.

BLOOMER, WIS.—Bids are asked until 4 p. m., July 12, for constructing water-works system, consisting of steel tank, gasoline engine and deep well pump, brick building and distribution pipe line system. Oscar Claussen, German-American Bank Bldg., St. Paul, Minn., is Consult. Engr.

EMMETSBURG, IOWA.—Bids are asked by the Board of County Supervisors until 1 p. m., August 7, for constructing drainage improvements in Districts Nos. 12, 15, 16, 17, 18, 19 and 24. Sim R. Stedman is County Audr. G. D. McNabb is Engr.

NEVADA, IOWA.—All bids recently received have been rejected for construction of ditch or drain partly in Marshall County and partly in Story County. Erastus Cornell is Audr. of Marshall County. F. G. Dunahugh is Audr. of Story County.

ST. PAUL, MINN.—Bids are asked by Edward H. Schulz, Capt. U. S. Engrs., until 11 a. m., July 20, for reconstructing Sandy Hook reservoir dam.

ALBERT LEA, MINN.—We are officially advised that the contract for constructing 2,786 ft. 6-in. water main extension has recently been let to Aug. Geisler, of this city, at $3,518. Wm. Barneck is City Engr.

DAWSON, MINN.—Plans have been prepared by O. Claussen, C. E., St. Paul, Minn., for constructing water-works system and electric light plant, this town. Cost, $30,000. Chas. Holten is Clk.

FRANKFORT, KAN.—Plans and specifications for constructing water-works are being prepared by Burns & McDonnell, 709 Dwight Bldg., Kansas City, Mo.

EXETER, NEB.—Burns & McDonnell, 709 Dwight Bldg., Kansas City, Mo., are preparing plans and specifications for constructing water-works system. Cost, $15,000.

BEAVER CITY, NEB.—Bids will soon be asked for construction of water-works system. Estimated cost, $10,000. C. E. V. Smith is Mayor.

GRAND ISLAND, NEB.—Bids are asked by the City Council until 5 p. m., July 7, for constructing seven blocks of 6-in. c.-i. pipe water mains on West Fifth St., one block on North Pine St. and one block on East 13th St. H. E. Clifford is City Clk.

BELLE FOURCHE, S. DAK.—Contract has been awarded H. T. ADAMS, of Belle Fourche, at $15,287, for constructing portion of distribution system of the Belle Fourche Irrigation System, known as Johnson Lateral. The work involves excavation of 54,950 cu. yds. of material.

HIGHMORE, S. DAK.—Bids are asked by Isaac Lincoln, Secy. of State Board of Regents of Education, Aberdeen, S. Dak., until 8 a. m., July 8, for drilling well at the State Experiment Farm, Highmore.

*COMMERCE, TEX.—Bids are asked by the City until July 18 for purchase of boilers, pumps, heaters, boiler feed pumps, deep well pumps, c-i. pipe, hydrants and valves. The O'Neil Engineering Co., 845 Wilson Bldg., Dallas, Tex., are Engrs.

SAYRE, OKLA.—Bids are asked until July 16 for constructing water-works plant. Burns & McDonnell, 709 Dwight Bldg., Kansas City, Mo., are Engrs.

MOUNTAIN VIEW, OKLA.—A water-works system will be constructed.

CLINTON, OKLA.—Contract for erecting tower and tank for water-works system has been let to the CHICAGO BRIDGE & IRON WORKS, Chicago. J. S. Wise is Mayor. The O'Neil Engineering Co., Dallas, Tex., are Engrs.

*CHECOTAH, IND. T.—Bids are asked by the City until July 15 for purchase of boilers, pumps, heaters, boiler feed pumps, electrically operated triplex pumps, automatic high speed engine, hydrants, valves and c-i. pipe. The O'Neil Engineering Co., 845 Wilson Bldg., Dallas, Tex., are Engrs.

*EUFAULA, IND. T.—Bids are asked by the City until July 16 for purchase of boilers, pumps, heaters, boiler feed pumps, hydrants, valves, c-i. pipe and other water-works material. The O'Neil Engineering Co., 845 Wilson Bldg., Dallas, Tex., are Engrs.

DENVER, COLO.—According to plans perfected by the contracting firm of J. G. White & Co. and Chicago and Denver financiers there will be constructed near Denver what is said to be the biggest dam in the world. It is intended to irrigate more than 100,000 acres of land. The dam will be known as the Stanley Dam, and will be built at a point nine miles northwest of Denver, and confine the flow of five rivers; it will have a length of a mile and a quarter, a height of 150 ft., and 10,000,000,000 cu. yds. of material will be required for its construction.

FORT BAYARD, N. MEX.—The contract for construction of steel tank and trestle with capacity of 300,000 gallons at Fort Bayard has been awarded to E. B. HENDRIE, of this city, at $21,492.

CIMARRON, N. MEX.—The Cimarron Valley Land Co. will construct irrigation works in the Cimarron Valley. The company has recently been incorporated at $1,000,000 and its headquarters will be at Cimarron. The main reservoir will be constructed at junction of Moreno and Cieneguilla Creeks and the main canal, which will be 20 miles long, will run along the divide of the Cimarron and Rayado Rivers to the uplands south of the Rayado. The incorporators and directors are Hilton M. Letts, Charles Springer, Frederick Whitney and George E. Remley, of Cimarron, and Arthur H. Officer, of Raton.

SALT LAKE CITY, UTAH.—The Secretary of the Interior has approved contract entered into by J. L. Lytel, on behalf of the Government and HERMAN SNOW, of Salem, Utah, at about $8,750, for hauling 1,000 tons of supplies, material, etc., in connection with the Strawberry Valley Irrigation Project, Utah. The supplies will be hauled from Mile Post 679, on the P. G. W. R. R. to the east and west portals of the tunnel.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

SOUTH PORTLAND (Portland post-office), ME.—Bids are asked by the Sewer Commission until 2 p. m., July 5, for constructing about 2,000 ft. of pipe sewers.

LEWISTON, ME.—The Board of Public Works has decided to construct two sewers.

TAUNTON, MASS.—The Sewer Commissioners have let contract for constructing sewer extension to the GEORGE M. BRYNE CO., 7 Water St., Boston, Mass., for $15,257. Bids were also received from the following: T. J. Young Co., Boston, $25,705; H. F. Macomber and John F. Magee, Taunton, $21,205; Taunton Construction Co., Taunton, $19,804; C. E. Trumbull Co., Quincy, $17,595; Wm. Shea & Son, Quincy, $17,080, and Falvey & Kelley, Dorchester, $15,556.

BROOKLINE, MASS.—We are officially advised that the following bids have been received for constructing portion of Section 82, Extension of High Level Sewer, South Metropolitan System, Brookline, Contract 57: George M. Bryne Co., 7 Water St., Boston, Mass., $40,725; Falvey & Kelly, 15 Intervale Park, Dorchester, $38,925; Charles G. Craib & Co., Winthrop, $38,425; Bruno, Salomone & Petitti, 23 Court St., Boston, $37,412; George J. Regan, 92 Stoughton St., Dorchester, $37,287; James Driscoll & Son, Brookline, $37,200; Jones & Meehan, 10 Tremont St., Boston, $36,100; Coughlan & Sheils, 104 Hanover St., Boston, $30,415, and T. J. O'Connell, 158 Adams St., Dorchester, $30,412. Itemized bids will be given next week under Contract Prices. Alexis H. French is Town Engr.

*TORRINGTON, CONN.—Bids are asked by the Board of Warden and Burgesses until 2 p. m., July 16, for constructing sanitary sewers. The work includes 10,876 ft. 8-in., 2,157 ft. 10-in., 3,681 ft. 12-in., 1,066 ft. 15-in. and 2,800 ft. of 20-in. tile pipe sewers, together with 76 manholes. Hugh W. Cronin is Boro. Clk. Walter A. Williston is Boro. Engr.

HARTFORD, CONN.—The Board of Contract and Supply has let contract for completing sewer on Campfield Ave. to the HARTFORD PAVING & CONSTRUCTION CO., for $4,023. Frederick L. Ford is City Engr.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. of the Bronx, until 11 a. m., July 16, for constructing sewers, etc., in portions of various streets, Boro. of The Bronx.

BUFFALO, N. Y.—Bids are asked by the Department of Public Works, Francis G. Ward, Comr., until 11 a. m., July 10, for constructing 24-in. brick sewer in portion of La Salle Ave.; 10, 12 and 15-in. tile sewer on both sides of portion Ladner Ave., and 10-in. tile sewer in portion of Newfield St.

LAKEWOOD, N. J.—The Lakewood Water, Light & Power Co. will build a sewage disposal system, consisting of septic tanks and filter beds.

*PHILADELPHIA, PA.—Bids are asked by the Department of Public Works, George R. Stearns, Dir., until noon, July 22, for constructing sewers appurtenant to abolishing grade crossings along line of the Philadelphia, Germantown & Norristown R. R. and the Philadelphia & Reading Ry., contracts Nos. 101 to 107, inclusive.

*CRESSON, PA.—Bids are asked by J. B. Rowlson, Clk. Borough Council, until July 10 for constructing sewers. Cost, $9,000. Fred. W. Hamburger, Ebensburg, Pa., is Engr.

WASHINGTON, D. C.—The District Commissioners have awarded contract for construction of five sewers to E. G. GUMMEL, Washington, D. C. Bids were received June 20.

WASHINGTON, D. C.—The bid of James A. Coyle, $13,840, for constructing sewer in valley of Falls branch, will probably be accepted by the District Commissioners.

The District Commissioners have let contract to WARREN F. BRENIZER, of this city, for constructing junction sections of B St. and New Jersey Ave. trunk sewers at Tenth St., for $10,561, and at 17th St. and Virginia Ave., for $3,465.

*NEW ORLEANS, LA.—Bids are asked by the Sewerage and Water Board, George G. Earl, Gen. Supt., until 3 p. m., Sept. 11, for constructing approximately 110 miles of sewers and appurtenances. The sewers will range in size from 8 to 27 ins., 5 to 17 ft. deep, and will include about 1,230 manholes and 443 flush tanks. W. J. Hardee is City Engr.

LANCASTER, OHIO.—Thomas Hill is low bidder for construction of Clark St. sewer, at $10,897 for cement and $11,171 for tile.

SPRINGFIELD, OHIO.—DOYLE & CAFFERTY have been awarded contract for construction of the outfall sewer, over 6,000 ft. long. Their bid was on 16-in. standard iron, 24-in. vitrified pipe, 34-in. concrete, 24-in. reinforced concrete, 36-in. concrete, manholes, culverts, etc.

YOUNGSTOWN, OHIO.—Bids are asked by the Board of Public Service, W. H. McMillin, Clk., until noon, July 8, for constructing sewer on Emma St., Lansing Ave. and Vine St., from Perry St. to Crab Creek. F. M. Lillie is City Engr.

INDIANAPOLIS, IND.—Bids will soon be asked for completing the Rural St. and Emerson Ave. sewer, 27,450 ft. in length. Estimated cost, $150,000.

FORD, MICH.—Bids are being received for construction of system of sewers, according to plans and specifications prepared by Mason L. Brown & Co., Detroit. Estimated cost, $80,000.

CHICAGO, ILL.—McCARTHY & CLEARY have secured the contract for constructing sewer in State St., from 39th to 55th Sts., at $228,000.

TOMAH, WIS.—E. R. HAVELROID, of Racine, has been awarded contract for constructing about 5½ miles of sewer and septic tank, as follows: Septic tank, $3,900; 2,749 ft. 20-in. pipe, $1.28 per lin. ft.; 299 ft. 15-in. pipe, 82 cts.; 4,570 ft. 12-in. pipe, $1.14; 3,952 ft. 10-in. pipe, 70 cts.; 17,331 ft. 8-in. pipe, 45 cts.; 100 manholes, $24 each; 10 flush tanks, $65; rock excavation, $5 per cu. yd.; total $27,929. Excavation ranges from 4 to 15 ft.; average depth, 6½ ft. D. J. Aller is City Clk.

OSHKOSH, WIS.—Bids are asked by the Board of Public Works until noon, July 20, for constructing sewer in portions of Graham and Sherman Sts.

DUBUQUE, IOWA.—Bids are asked by Edmund A. Linehan, City Recorder, until 8.30 p. m., July 5, for constructing 8-in. tile pipe sanitary sewer in portion of Delhi St. James H. Bryce is City Engr.

WATERLOO, IOWA.—W. N. DEARBORN, of Cedar Rapids, has secured the contract for constructing nearly five miles of sewers, at $93,219. Bids were also received from M. Ford, Cedar Rapids, $101,940; Peoples' Construction Co., Davenport, $108,942; and the Independent Construction Co., Davenport, $111,493.

ST. PAUL, MINN.—Bids are asked by the Board of Public Works, R. L. Gorman, Clk., until 2 p. m., July 8, for constructing sewer in portion of Western Ave.

JAMESTOWN, N. DAK.—Plans are being prepared for constructing [illegible] ft. of sewers.

BROOKINGS, S. DAK.—Bids asked by G. H. Stoddart, City Audr., until July 15, for constructing sewer, septic tank and filter beds. The work includes one septic tank, with appliances, filter beds, 1,982 ft. 24-in. sewer pipe, [illegible] ft. 18-in. sewer pipe, 200 ft. 12-in. sewer pipe.

TACOMA, WASH.—Owen Wood, Comr. of Pub. Wks., has let contract to N. JONES, in District No. 164. Bids were also received as follows: Lister Construction Co., $17,495; Carlson & Swanson, $16,860; M. Mickey, $16,890, and B. W. Kibler, $17,010. Frank L. Davis is City Engr.

SAN JOSE, CAL.—Bids are asked by the Board of County Supervisors, Harry A. Pfister, Clk., until 11 a. m., July 15, for constructing septic tank sewer system for the County Poorhouse.

COEUR D'ALENE, IDAHO.—[illegible] contract for constructing sewerage system has been let by the Sewer Committee to JOHN F. COSTELLO, of Spokane, Wash., for $59,749.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Bids are asked by the Department of Street Cleaning, M. Craven, Comr., until noon, July 15, for furnishing and delivering parts for sprinkling trucks and for sweeping machines.

NEW YORK, N. Y.—The following bids were received June 26 by Joseph Bermel, Pres Boro. of Queens, for final disposition of garbage in Fifth Ward, Boro of Queens, for period of three years, during the months of June, July, August and September, beginning June 1, 1907, and furnishing and operating necessary dump, scows, [illegible], etc.: Long Island Contracting & Supply Co., Long Island City, $10,500 per year; E. J. McKeever, Astoria, L. I., $12,500, and George F. Vreeland, $12,000.

BALTIMORE, MD.—Specifications are being prepared by Col. J. L. Wickes, Comr. of Street Cleaning, for removal and final disposition of garbage, dead animals and market refuse for a period of ten years.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—C. W. DOLLOFF & CO., 20 Central St., Boston, has secured contract for paving Prison Point bridge.

EAST BOSTON (Boston post-office), MASS.—The National Dry Dock Co., of East Boston, has let contract to C. W. DOLLOFF & CO., 20 Central St., Boston, for grading and paving with granite block 2,300 sq. yds. and for constructing railroad tracks along the various docks.

WHITE PLAINS, N. Y.—The TROY PUBLIC WORKS CO., of Utica, N. Y., has secured contract for constructing two miles of macadam road near White Plains. E. F. Musson, of Norwich, N. Y., is Engr.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., July 10, for regulating, grading, curbing and laying sidewalks on portions of various streets, Boro. of Brooklyn.

NEW YORK, N. Y.—The following bids were received June 26 by Joseph Bermel, Pres. Boro. of Queens, for regulating and grading the Boulevard, from Webster Ave. to Broadway, First Ward, Boro. of Queens: Atlanta Contracting Co., 434 East 91st St., New York, $70,581; D. W. Moran, 592 Burnside Ave., New York, $78,150; James A. Boyce & Co., Astoria, L. I., $67,152; Pease Bros., 20 Main St., Flushing, L. I., $62,334; Astoria Contracting Co., Astoria, L. I., $71,828; Thomas F. Tuohy & Co., 97 Main St., Brooklyn, $70,120, and Henry J. Muller, 328 Fulton St., Jamaica, $70,166.

*WILKES-BARRE, PA.—Bids are asked by James M. Norris, County Controller, until 2 p. m., July 18, for constructing pavement of vitrified paving block on portion of Broad St. in Hazle Township. Bids are asked at the same time for furnishing and delivering vitrified paving block required on above work.

*SHARPSVILLE, PA.—Bids are asked by the Borough Council, W. A. Graber, Secy., until 7 p. m., Aug. 6, for about 11,700 sq. yds. street paving with vitrified paving block on 6-in. concrete base with asphalt filler.

WASHINGTON, D. C.—Bids were received as follows by the District Commissioner for grading various streets and avenues: Burr Bros., Inc., Brookland, D. C., Brookland Ave., 30 cts. per cu. yd.; G. B. Mullen, Washington, D. C., Albemarle St., 34 cts.; Rittenhouse St. and Brightwood Ave., 34 cts.; Rittenhouse St. and Western Ave., 34 cts. George Nesslein, Washington, D. C., Brookland Ave., 34½ cts.; Rittenhouse St. to Blair Road, 41 cts. G. L. Lettimer & Thos. Linney, Washington, D. C., Brookland Ave., 34 cts. Cassius C. McGruder, Washington, D. C., Brookland Ave., 40 cts. G. B. Mullen, Washington, D. C., grading and setting curb in various streets; grading, 43 cts. per cu. yd.; setting 6 × 20-in. granite and blue stone curb, 26 cts.; setting 8 × 8-in. granite and blue stone curb, 31 cts. per cu. ft.; paving or repairing cobble and granite block gutters, 39 cts.

ELBERTON, GA.—City has awarded contract to CLARK & WARREN for paving about 12,500 sq. yds. of street surface with vitrified brick.

MONTGOMERY, ALA.—The MEMPHIS ASPHALT & PAVING CO., Memphis, Tenn., has secured contract to pave Wilson and Carolina Sts.

COLUMBUS BARRACKS (Columbus post-office), OHIO.—Bids are asked by Capt. H. B. Chamberlin, Constr. Q. M., until 10 a. m., July 19, for constructing brick road pavement, concrete sidewalks, gutters, etc., at Columbus Barracks.

CLEVE[illegible]D, OHIO.—Bids are asked by the Boa[illegible] County Commissioners, Julius C. Dorn[illegible] until 11 a. m., July 27, for repairing [illegible] Road, from Kamm's to Pinscombe's [illegible]. A. B. Lea is County Engr.

Bids [illegible]sked at the same time for repairing [illegible]yville Road, in Chagrin Falls Township.

COLU[illegible], OHIO.—Bids are asked by the Board [illegible]blic Service, E. F. McGuire, Secy., [illegible]noon, July 12, for constructing asphalt [illegible]r plant. Henry C. Maetzel is City Engr.

PAIN[illegible]LLE, OHIO.—Bids are asked by Sam H[illegible] State Highway Comr., until July 2[illegible] constructing highway.

LINI[illegible], OHIO.—WITTE & MAGEE, of Elmore, [illegible] been awarded contract to construct [illegible] sq. yds. of Metropolitan paving block [illegible]-in. crushed limestone and 2-in. lake sa[illegible] foundation, at $1.38 per sq. yd.; 5,190 yd[illegible] earth excavation, at 30 cts.; coal tar cem[illegible] filler at 12 cts. per sq. yd. additional, [illegible] $1.50; also for setting 4,720 ft. 4 × 20-in. [illegible] curb at 36 cts., 390 ft. circular curb, 45 [illegible] and 410 ft. headers, 33 cts. The total bi[illegible] received were: Hunker, Williams & Lyons, Elyria, $15,949; James Suhhan, Toledo, $14,150; Modern Construction Co., Fremont, $13,669; G. H. Heffner & Son, Celina, $14,712; WITTE & MAGEE, Elmore, $14,169 (awarded contract); A. J. Sturgh, Galion, $14,641; M. F. O'Sullivan, Toledo, $14,167; Theo. W. Hill, Bellefontaine, $15,732; Wm. H. Eisenbour, Fremont, $13,773. The bids lower than Witte & Magee were not regular, and were therefore rejected. J. C. Overmeyer, Fremont, is Engr.

PIQUA, OHIO.—KEMP & SONS have been awarded contract for 6,528 sq. yds. brick at $1.34, total $7,507. The Andrews Asphalt Co. bid $8,747; Martin & Shannon, $7,703; and J. E. Conley & Co., $7,637. The ANDREWS PAVING CO. has contract for resurfacing 17,038 sq. yds. with asphalt at $1.51; total, $25,727. The Barber Asphalt Co. bid $26,238, and the Western Construction Co., $27,094. H. E. Whitlock is City Engr.

ORRVILLE OHIO.—Bids are asked by S. W. Jackson, Village Clk., until noon, July 27, for improving portions of Mill and Orr Sts.

BRAZIL, IND.—Bids are asked by the County Commissioners until July 5 for construction of 5,755 ft. of gravel road in Cass Township. James L. Burns is County Audr.

HILLSBORO, IND.—Bids are asked until 2 p. m., July 8, for laying about 6,000 sq. yds. brick pavement, 10,000 sq. ft. concrete sidewalk, and 35,000 lin. ft. curbing. W. B. La Baw, Veedersburg, Ind., is Engr.

GREEN CASTLE, IND.—Bids are asked by the County Commissioners until 10 a. m., Aug. 1, for construction of 5½ miles of gravel and macadamized road. C. C. Hurst is County Audr.

RICHMOND, IND.—Bids are asked by the Board of Public Works until July 12 for grading, graveling and bouldering roadway and construction of a three brick center gutter in center of alley south of South B St. Clifton W. Merrill is Chn.

NAPPANEE, IND.—The CENTRAL CONSTRUCTION CO., of Rochester, has been awarded contract for paving amounting to about $100,000.

SULLIVAN, IND.—Bids are asked by the County Commissioners until noon, July 11, for construction of macadamized road in Fairbanks Township. Length of road, 19,923 ft. E. E. Russel is County Audr.

SPENCER, IND.—Bids are asked by the County Commissioners until 11 a. m., July 18, for construction of macadamized road along the county line road between the counties of Morgan, Owen and Putnam. G. O. Mitten is County Audr.

EVANSVILLE, IND.—Bids are asked by the County Commissioners until 10 a. m., July 8, for repair of Booneville Road, requiring 200 cu. yds. of broken stone; Blue Grass Road, 400 cu. yds. of broken stone, and State Road, 170 cu. yds. of broken stone. Harry Stinson is County Audr.

GRAND RAPIDS, MICH.—Bids are asked by the Board of Public Works, Samuel A. Freshney, Secy. and Gen. Mgr., until 8 p. m., July 5, for resurfacing intersection of Ionia and East Fulton Sts.

McLEANSBORO, ILL.—Bids are asked by the Board of Local Improvements, G. W. Hogan, Pres., until 1 p. m., July 9, for grading, filling and paving about 2½ miles of streets.

LA CROSSE, WIS.—The Board of Public Works has awarded the following contracts: LA CROSSE STONE CO.: Paving with macadam, Eighth St., 8,891.9 sq. yds., including 7,245.5 ft. of cement curb and gutter, 3,101 cu. yds. of grading and 410 sq. ft. of concrete driveways, at $11,956; Sixth St., 7,641 sq. yds. macadam, 4,454 lin. ft. cement curb and gutter and 2,500 cu. yds. grading, at $8,1[illegible]; Kane St., 8,503 sq. yds. macadam, 5,968 ft. cement curb and gutter, and 3,100 yds. grading, at $9,872; also for constructing 711.8 sq. yds. completed pavement, 3,168 cu. yds. of grading, 640 lin. ft. of headers, 1,598 lin. ft. cement curb and gutter, and 2,667.2 sq. yds. brick paving, laid in 6 ins. of concrete, at $6,298. WOOLEY & HANSON have contract for improvements in Cass St., including 9,221 sq. yds. of creosoted wood block paving laid on 6 ins. of concrete, 5,623 ft. cement curb and gutter, 3,100 yds. of grading, and 3,500 ft. of concrete driveways. The LA CROSSE STONE CO. also has contract for paving and other improvements in alley between Sixth and Seventh Sts. and Main Sts., at $6,298. W. S. Woods is City Engr.

ST. [illegible], MINN.—Bids are asked by the Board [illegible] County Commissioners until 10 a. m., [illegible]13, for macadamizing portion of Edgerton [illegible] and grading and improving portion of [illegible] Eagle Lake Ave. Edward G. Krahmer [illegible] County Audr.

FT. LEAVENWORTH, KAN.—Bids are asked by Capt. J. E. Normoyle, Q. M., until 11 a. m., July 19, for paving, laying curbs, gutters, drains, etc., on portion of Grant Ave.

SEATTLE, WASH.—The Board of Public Works has let contract to HANS PEDERSON for regrading Westlake Ave., at $16,378. OTTOSEN & JENSON have secured contract for regrading Fairview Ave., at $39,710. R. H. Thomson is City Engr.

OAKLAND, CAL.—The BLAKE & BILGER CO. has been awarded contract for macadamizing portion of Ruby St. with broken stone macadam, at 7 cts. per sq. ft. Frank R. Thompson is City Clk.

HALIFAX, N. S.—The BARBER ASPHALT PAVING CO., 114 Liberty St., New York, has secured contract for paving about 24,000 sq. yds. of roadway with Trinidad asphalt, at $2.59 per sq. yd. F. W. W. Doane is City Engr.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

ALBANY, N. Y.—Mill No. 5 of the Utica Steam Cotton Mills Co., Utica, is to have a 3-story addition erected, 100 × 56 ft. The old barns and waste houses adjoining the mill are to be torn down and a building 100 × 55 ft. will be constructed. It will be used as a storage room for additional machinery which will be installed.

SKANEATELES, N. Y.—The contract for erection of the Skaneateles Paper Co.'s plant at Skaneateles, has been awarded to the CONSOLIDATED ENGINEERING & CONSTRUCTION CO., Syracuse Savings Bank Bldg., Syracuse. It consists of five buildings all of which will be brick, steel and reinforced concrete. George F. Hardy, 309 Broadway, New York, is Engr.

PALMYRA, PA.—The Palmyra Woodwork Mfg. Co., Palmyra, has been organized with capital of $10,000 paid in. The company will manufacture a line of household specialties.

WASHINGTON, D. C.—The District of Columbia Paper Manufacturing Co., Potomac and K Sts., Georgetown, D. C., has awarded contract to RICHARDSON & BURGESS, Colorado Building, for construction of addition to its plant; five stories; reinforced concrete construction. Cost, $23,000.

CHARLESTOWN, W. VA.—Conklin Bros. will build grist mill, with water power; cornmeal buhr of four or five bushels per hour capacity will be installed; also feed crusher and grinder of 25 to 30 bushels capacity; short process of flourmaking may be added; building will be 20 × 30 ft. and 20 ft. high.

SELMA, N. C.—M. C. Winston and N. E. Edgerton, of Selma, and W. M. Sanders, of Smithfield, N. C., propose to build cotton rope and twine mill at Selma. They contemplate utilizing waste and card strips. Estimates on the necessary machinery are invited, and Mr. Winston can be addressed.

RALEIGH, N. C.—J. W. Barber & Son have let contract to HONEYCUTT & SON for erection of carriage works; building to be of brick and cement; 72 × 100 ft.; electric lighting; hand-power elevators. Barrett & Thompson are Archs.

TAYLORSVILLE, N. C.—It is contemplated to develop water power property and build cotton mill at Taylorsville. The power to be transmitted by electricity. E. L. Hedrick, Box 126, is interested and can be addressed for information.

CHARLOTTE, N. C.—The Liberty Cotton Mills Co., incorporated in April at Clayton, with $120,000 capital stock, has been organized. A. J. Barbour is Pres.; E. L. Hinton is Treas. A building is to be erected and machinery installed for spinning Nos. 14 to 16 yarns.

LENOIR, N. C.—F. P. Moore and son, J. C. Moore have decided to erect cotton mill at Lenoir. The plant will be equipped with 5,000 spindles producing Nos. 40 to 60 fine yarns, and will probably cost about $100,000.

NEWBERRY, N. C.—It is reported that the Mollobon Manufacturing Co., of Newberry, will build another cotton mill, its present plant having 29,952 spindles and 672 looms.

COLUMBUS, GA.—Georgia Fertilizer Co. has awarded contract to C. T. GIFFORD for erection of proposed plant, to be equipped with acid tanks, mixing apparatus, etc.; burner-room and tower-house will be of brick construction. About $100,000 will be invested. John T. Fletcher is Pres.

MOBILE, ALA.—National Mosaic Flooring Co., now manufacturing mosaic flooring in Cuba, has purchased site on which to locate plant for manufacturing mosaic blocks in 350 designs 8 × 8 ins. square; daily capacity, 10,000 sq. yds. Contract has been awarded to F. H. McCONNELL & CO., of Mobile, at about $12,000, for erection of building, one story high, 165 × 330 ft. Plans have been prepared by Hutchinson & Garvin, of Mobile. It is understod that $300,000 will be invested. F. Benemelis, of Mobile, is interested.

GADSDEN, ALA.—The Southern Steel Co. will build plant for forging steel axles, the daily capacity at the start to be 60 tons and 150 men to be employed. Plans are now being prepared, and the construction of the plant is to begin in the fall. It is understood that this addition to the company's facilities will be the first step toward the establishment of a department for manufacturing complete steel cars for railways. E. T. Schuler is Vice-Pres.; offices at Gadsden. Moses Taylor is Pres., offices at 30 Pine St., New York.

LANGDALE, ALA.—The West Point Manufacturing Co., West Point, Ga., it is stated will build mill of 35,000 spinning spindles, a large number of twister spindles and accompanying machinery for manufacturing heavy cotton duck. This mill will be driven by electricity, motors to be distributed throughout the plant, the power being transmitted from the company's Chattahoochee River station; main mill to be three stories high and more than 800 ft. long; contract awarded to J. F. GALLIVAN BUILDING CO., Greenville, S. C.; contract for powerhouse awarded to B. H. HARDAWAY, Columbus, Ga; textile machinery was contracted for in February, to be delivered in November and December. The foregoing improvements will probably cost about $700,000, and the accompanying land betterments will cost about $100,000. West Point Manufacturing Co. has purchased 300 acres of land for site, and engineers are now platting the property for mill village with 200 operatives' cottages, modern roads and sidewalks, school buildings, churches, etc. Lockwood, Greene & Co., of Boston, Mass., are the architects for the mill. West Point Manufacturing Co., Lanett Cotton Mills, Lang Manufacturing Co. and Riverdale Cotton Mills, all in Alabama, are associate corporations, with main offices at West Point, Ga., and L. Lanier, Pres., in charge.

NASHVILLE, TENN.—Plans are being completed for shoe factory to be erected by Manier, Dunbar & Co. Building will be 50 × 250 ft., either three or four stories high, and be equipped for daily capacity of from 600 to 1,500 shoes.

CLEVELAND, OHIO.—T. H. BROOKS & CO., Cleveland, have been awarded the contract for structural iron work for the new First National Bank Building in this city. The building will require about 950 tons.

ANDERSON, IND. — The Arcade File Works, Anderson, have completed plans for extensive improvements in the plant.

HAGERSTOWN, IND.—The Light Inspection Car Co. has ordered plans and will soon ask for bids for construction of addition to its plant in this city.

LEBANON, IND.—The Dairy Cream Manufacturing Co. will build and equip a factory plant in this city.

STREATOR, ILL.—The National Drain and Tile Co., of Terre Haute, Ind., is reported to have decided to erect a sewer pipe factory at Streator.

CHICAGO, ILL. — The Chicago Railway Equipment Co., E. B. Leigh, Pres. and Gen. Mgr., is reported to have bought a tract containing about twenty acres, between 44th and 46th Sts, with an east frontage of 1,300 ft. on Lincoln St. This property is to be immediately improved by the erection of one of the largest and best equipped plants. Material tracks are already laid and construction work is to be started immediately. The offices are to be located in a fireproof building, 80 × 100 ft., to be built on the 46th St. front. The manufacturing plant will cover about 150,000 sq. ft. aside from the office building. The cost of the plant is estimated at about $750,000.

ST. LOUIS, MO.—The Compressed Air & Vacuum Machinery Co. has purchased about an acre of land on which to erect plant, 135 × 309 ft., costing $200,000, for manufacturing housecleaning apparatus. Office building will cost $15,000. John S. Thurman is Pres. and Gen. Mgr.

LITTLE ROCK, ARK. — Chicago, Rock Island & Pacific Ry. Co. has completed plans for terminals costing $400,000, to have 15 miles of trackage and capacity of 1,500 cars. Construction work will begin immediately, and it is expected that by the end of the year sufficient trackage to admit of the handling of 500 cars will be completed. About $150,000 will cover cost of construction for first year. It is also proposed to build shops and roundhouse. J. B. Berry is Ch. Engr., Chicago, Ill.

CENTERTON, ARK.—Stroud & Snyder will establish vinegar plant. Frame building, 50 × 300 ft., will be erected and equipped at cost of $12,000 to $15,000. Production, cider vinegar; grinding capacity, 5,000 bushels daily. G. N. Hendricks, Rogers, Ark., is Arch. D. F. Johnson, Rogers, Ark., is Engr. Company will establish similar plant at Springdale, Ark.

AUSTIN, TEX.—A brick building, 200 × 75 ft., is to be erected for the Corsicana Cotton Mills, of Corsicana. The company has purchased 3,000 spindles of the New Century Mills of Dallas, which will partly equip the new plant. Electricity will be used. The present mill operates 5,000 spindles and 150 looms producing cloth.

SPOKANE, WASH.—Jones & Dillingham have let contract to E. J. CHEATHAM for erection of three-story and basement brick factory, to occupy corner of De Smet and Ruby Sts., and cost $40,000. The company is building a $20,000 warehouse on adjoining lot.

Ford Pump & Engine Co., capital $100,000, has been incorporated with A. F. Ford, Pres., and will erect a $25,000 plant for the purpose of manufacturing engines and pumps.

Spokane Concrete Co. will erect concrete, brick and tiling plant, 50 × 150, at 14th Ave. and the Northern Pacific tracks, at cost of $20,000.

EDMONDS, WASH.—William Keeler, of Ballard, has purchased 100 ft. of waterfront property from George Brackett and will commence work immediately upon the building of a shingle mill. The ground lies between the Brady mill and the Carpenter mill north of the city dock.

CASHMERE, WASH.—A. R. Gleason, of Boston, has made a proposition to the Commercial Club to build woolen factory at this place providing a suitable location can be found.

SUMNER, WASH.—Weber-Bussell Cannery Co., of Seattle, is to erect a cannery costing $25,000 in Sumner. Two and a quarter acres of land, costing $3,000, has been purchased.

TACOMA, WASH.—NEWMAN & HOY, St. Paul, Minn., have been awarded contract for general construction of machine shop, blacksmith shop and storage building for the Northern Pacific Ry. here. The buildings will cost complete $125,000.

WILLIAMS, ARIZ. — CARL LEONARDT has been awarded the contract for erection of $100,000 reinforced concrete roundhouse for the Santa Fe Railway Co., at Williams.

PAYETTE, IDAHO.—The Radio Co. will erect powder factory here. New machinery for the factory has been ordered and is now on its way to Payette from New York, and it is expected it will arrive within the next few days. The machinery will not be set up until it can be installed in the new building. Following are officers: N. Secor Hyatt, Boise, Pres.; W. A. Coughanour, Payette, Vice-Pres.; W. R. Hyatt, Payette, Secy.; L. W. Smith, Payette, Treas., the fifth member of the board of directors, L. V. Patch, Payette.

MONTREAL, QUE.—The Redmond Co., Limited, Montreal, will erect building on the site formerly occupied by the Montreal Biscuit Co., who were burnt out a year ago. The plans, prepared by Ross & MacFarlane, Montreal, call for reinforced concrete building, four stories and basement, with frontage of 77½ ft. on Inspection St., and depth of 164 ft. Construction will be fireproof throughout, metal sashes and wired glass windows being used. A sprinkler system, with a 25,000-gallon tank will be installed. The building will be equipped with electric elevators, and an up-to-date low pressure steam heating system. The new building will enable the Redmond Co. to bring their fur factory, sheep-lined coat factory, and cap factory, now operating in different parts of the city, under one roof. The total cost of the building will be in the neighborhood of $125,000, and it is to be completed about May 1, 1908.

Swift, Copeland & Co., Montreal, will build fireproof factory at 517-527 St. Paul St. The plans call for building of six stories and basement, mill construction, about 90 × 90 ft. It will be equipped with freight and passenger elevators, and sprinkler system will be installed. One floor may be rented for factory or warehouse purposes. Work will commence at once. H. C. Stone, Montreal, is Arch.

WINNIPEG, MAN.—The J. McDIARMID CONSTRUCTION CO., of Winnipeg, has been awarded the following contracts by the Canadian Pacific Ry. Co.: Roundhouses at Cranbrook, Coleridge, Strathcona and Swift Current, and also contract in Winnipeg for additions to the shops and car sheds. Estimated cost, $125,000.

BRANTFORD, ONT.—The Gould, Shapley & Muir Co. are making extensions to their plant at Brantford, that will cost about $27,000. A new warehouse, blacksmith and galvanizing shops are to be erected.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

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*REPAIRING PIER. — Holland, Mich. — Bids are asked by Col. M. B. Adams, Corps Engrs., U. S. A., until 3 p. m., July 26, for repairing North Pier, at Holland.

*DREDGING.—New York, N. Y.—Bids are asked by Col. D. W. Lockwood, Corps Engrs., U. S. A., Army Bldg., New York, until noon, July 30, for dredging in Newark Bay and Passaic River, N. J.

BREAKWATER.—Duluth, Minn.—No bids were received on June 24 by Maj. Graham D. Fitch, Corps Engrs., U. S. A., for building rubble mound breakwater at Superior Entry, Wis.

DREDGING.—Seattle, Wash. — Bids are asked until noon, July 12, by Maj. H. M. Chittenden, Corps Engrs., U. S. A., for dredging Grays Harbor and Willapa River, Wash.

DITCH.—Marion, Ind.—The contract for the construction of the Newby Ditch has been let by the County Surveyor to WILLIAM G. WOOD. The estimated cost of construction is $9,500.

WHARF.—Vancouver, B. C.—The Johnson Wharf Co., of Vancouver, has awarded the contract for a $60,000 wharf to the BRITISH COLUMBIA GENERAL CONTRACT CO. It will be 600 ft. long.

*DREDGING.—Wilmington, Del.—Only one bid was received by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., on June 26, for dredging in Cohansey River, N. J., that of the Bowers Hydraulic Co., at 29.9 cts. per cu. yd.

LEVEE.—New Orleans, La.—Bids are asked b yCapt. J. F. McIndoe, Corps Engrs., U. S. A., until 11 a. m., July 10, for constructing about 300,000 cu. yds. of levee work in the Pontchartrain Levee District.

DREDGING.—San Diego, Cal.—The contract for dredging the bar at the entrance to San Diego Harbor has been let to the NORTH AMERICAN DREDGING CO., 13 Park Row, New York. Noted on June 29.

FLOATING BATH.—New York, N. Y.—The Long Island Construction & Supply Co., Long Island City, submitted the only bid, at $14,725, for construction of a floating bath in the Boro. of Queens, together with all the work incidental thereto.

DREDGING, EXCAVATING. — Skagway, Alaska.—Bids are asked until 11 a. m., July 29, at Room 602, Burk Bldg., Seattle, Wash., for dredging and excavating in the St. Michael Canal, Alaska. Capt. G. B. Pillsbury, Corps Engrs., U. S. A.

WHARF REPAIRS.—Fort Morgan, Ala.—Bids are asked by Capt. L. F. Garrard, Jr., Box 605, Mobile, Ala., until 11 a. m., July 23, for furnishing labor and material for filling and top soiling the reservation and repairing wharf at Fort Morgan, Ala.

DOCK.—Two Harbors, Minn.—The Duluth & Iron Range R. R. Co. intends to build an ore dock at Two Harbors this summer and fall which will cost not less than $300,000. The dock will contain 142 pockets and will be 940 ft. long. It will be so constructed that it can greatly reduce the loading time of the big freighters. Switching yards will be built by the Duluth & Iron Range R. R. Co. at Two Harbors to facilitate the handling of the freight cars. R. Angst, Duluth, Minn., is Ch. Engr.

DITCH.—Marshalltown, Iowa.—Bids are asked until Aug. 1 for construction of a ditch or drain, partly open, and partly 16 to 30-in. tile, about eight miles in all. It is to be divided into five sections, and completed by Dec. 1, 1909. Erastus Rornell is County Audr.

DAM.—Norfolk, Va.—Board of Control has awarded contract to the TRUSSED CONCRETE STEEL CO., 403 Wilson Bldg., Baltimore, Md., for the trussed steel bars to be used in improving Little Creek dam, for which $18,000 has been appropriated. W. F. Brooke is City Engr.

*RETAINING WALL.—New York, N. Y.—Bids are asked until noon, July 30, by George Cromwell, Pres. Boro. of Richmond, for constructing reinforced concrete retaining walls on Jay St. and South St., and other work in connection with the St. George Ferry approach.

JETTY, DIKE.—Mantua, N. J.—Contract for constructing jetty and dike at the mouth of Mantua Creek has been let to the FRANKLIN E. WILLS CO., Wilmington, Del., at $19.90 a lin. ft. for jetty, and $9.25 a lin. ft. for dike. Major C. A. F. Flagler, Corps Engrs., U. S. A.

WHARF, TRESTLE, COAL BUNKER.—San Diego, Cal.—Bids are asked until 11 a. m., Aug. 2, at the Bureau of Equipment, Navy Dept., Washington, D. C., for constructing a wharf, trestle and coal bunker at the U. S. Naval Coal Depot, San Diego. William S. Cowles is Ch. of Bureau.

*IMPROVING CHANNELS.—Des Moines, Iowa.—Bids are asked until 11 a. m., July 10, by the Board of Public Works, for improving channels of the Raccoon and Des Moines rivers, work to begin Aug. 10, 1907, and to be completed April 1, 1910. George D. Dobson is City Engr., Des Moines.

JETTY.—Portland, Ore.—Bids were received by Lieut.-Col. S. W. Roessler, Corps of Engrs., U. S. A., on June 17, for furnishing stone for jetty construction at the mouth of Columbia River. Contract has been awarded to ROBERT WAKEFIELD, Albina, Portland, at $1.10 for 200,000 tons, and $1.12 for 1,000,000 tons.

RIPRAP SEAWALL.—New York, N. Y.—Bids are asked by the Park Board until 3 p. m., July 18, for furnishing all labor, plant and materials necessary to construct and complete riprap seawall along the Bay Ridge Parkway, from Wakeman pl to Fort Hamilton av, Boro. of Brooklyn, together with all work incidental thereto. Moses Herrman is Pres.

BREAKWATER.—Los Angeles, Cal.—Bids were received by Capt. Amos A. Fries, Corps Engrs., U. S. A., on June 18, for repairing and completing breakwater at San Luis Obispo Harbor. About 151,140 tons of rock is included in the contract. The San Francisco Bridge Co., Monadnock Bldg., San Francisco, submitted the lowest bid, at $1.57 a ton.

DOCK, ETC.—Mobile, Ala.—The Ollinger-Bruce Dry Dock Co. will expend about $15,000 in improvements. Among the improvements to be made are bulkheading the ground on the pass side of Pinto Island and construction of a slip. The company proposes to bring to the island sectional dry docks, doing away with their plant on the west side of the river.

*DREDGING, ETC.—Galveston, Tex.—Bids are asked until noon, July 31, by Capt. John C. Oakes, Corps Engrs., U. S. A., for dredging inland waterway between Aransas Pass and Pass Cavallo to the mouth of the Guadalupe River, through San Antonio and Mission Bays. Also for dredging, snagging and removing rafts, etc., in Guadalupe River, between its mouth, and Victoria, Tex.

DREDGING.—Manitowoc, Wis.—STARKE DREDGE & DOCK CO. has secured the contract for additional dredging up river for the city at 10 cts. a cu. yd., and the company will do the dredging between Eighth and Tenth Sts., at 12 cts. a cu. yd. There is 1,000 yards to be dredged from a point that now projects into the turning basin. C. H. Vogel is Mgr.

DIKES, WALLS.—Savannah, Ga.—Bids were received by Lieut.-Col. Dan C. Kingman, Corps Engrs., U. S. A., on June 18 for raising and repairing dikes and training walls in Savannah Harbor, but being in excess of the Government appropriation of $93,526, were all rejected. The bids submitted were: R. G. Ross & Co., of Jacksonville, $153,410; Gadsden Contracting Co., of Savannah, $134,700, and D. Power & Co., $123,310.

DAMS AND SHORE PROTECTION.—Rock Island, Ill.—On June 14, Maj. C. S. Riche, Corps Engrs., U. S. A., Rock Island, awarded contract for construction and repair of dams and shore protection between Burlington, Iowa, and Hannibal, Mo., as advertised in Engineering News, to CAPT. ALBERT V. FETTER, of Quincy, Ill., at $44,000. The work contracted for is for constructing and repairing dams and building shore protections, and the work on the same will be started at once. Stone for the riprap work will be furnished for the Burlington-Hannibal contract at the quarries of E. W. Bradshaw.

RETAINING WALL.—Eureka, Cal.—The Northwestern Pacific R. R. Co. contemplates constructing concrete retaining wall on the southern side of the tunnel passing through the Carson property in the eastern part of the town. It is probable that the contract will be let to the Eureka Paving Co. of this city, and that work will be commenced within a month. The tunnel is 800 ft. long and between 16 and 20 ft. high. The retaining wall will be eight feet high and seven feet thick at the base, gradually becoming less thick as it reaches the top. On the opposite side of the tunnel concrete piers are to be built and with the completion of the work, the tunnel will be entirely retimbered. W. C. Edes, San Francisco, is Ch. Engr., N. W. P. R. R. Co.

BRICK, ETC.—Washington, D. C.—Bids were received as follows at the office of the Commissioners of the District of Columbia for bricks, sand and gravel for the fiscal year beginning July 1, 1907: Bricks—Repressed vitrified invert sewer bricks: Material Supply Co., 518 Gay St., Baltimore, Md., $16.50 per thousand; James W. Porter, Pittsburg, Pa., $15.85 per thousand. Sand and Gravel—Potomac Dredging Co., Washington, D. C. Concrete sand: delivered at District yard, in scows, 84 cts. per yd., in wagons 94 cts.; same at contractor's wharf 62 cts. Building sand: delivered at District yard, in scows, 84 cts. per yd.; in wagons, 90 cts.; same at contractor's wharf, 58 cts. Screened gravel delivered at district yard, in scows, $1.04 per yd., in wagons $1.14; same at contractor's wharf, 82 cts.

PIER, REVETMENTS.—Saugatuck, Mich.—Bids were received by Col. H. M. Adams, Corps. Engrs., U. S. A., Grand Rapids, June 24, for construction of sheet pile revetments and repair of south pier at Saugatuck Harbor as advertised in Engineering News. Bids were as follows: ROBERT LOVE & SON, Muskegon, Mich., $56,236 (awarded contract); Great Lakes Dredge & Dock Co., Commerce Bldg., Chicago, Ill., $70,025; Burke, Smith & Nelson, Muskegon, Mich., $56,967; Bennett-Schnorbach Co., Muskegon, Mich., $65,717; G. W. Bunker & Co., Grand Rapids, Mich., $59,688. The work at Saugatuck is mainly sheet piling or revetment work and will require the services of two pile drivers, a suction dredge, a derrick, scow and tug, and about 35 men. About 96 ft. of the old work will have to be cut down and the company will have to furnish and drive 25,556 ft. of oak piling, furnish 27,041 ft. of oak timber, 319,077 ft. of pine timber, 516,034 ft. of pine plank for sheet piling and 21,952 ft. of pine plank for decking.

SUBWAY.—Los Angeles, Cal.—The Mayor and City Council have granted a franchise to the Los Angeles-Pacific Co. for a subway system under North Hill St. and private property extending from First and Hill Sts. to Hill St. and Sunset Boulevard. The subway is to be used by the rapid transit line of the Los Angeles-Pacific Co. From First and Hill to Temple and Hill the subway will be under Hill St. The tunnel in this section will be only 500 ft. long. From Hill and Temple Sts. the subway extends in a straight line to Hill St. and Sunset Boulevard. With the exception of street crossings the subway here will be entirely under private property, most of which is owned by the railway company. Provision is made in the franchise grant for a second tunnel between First and Temple Sts., to be used as a public thoroughfare. The city will pay a small part of the cost of this tunnel, and the remainder will come from an assessment district already outlined. The retaining wall on the east side of the railway tunnel will serve for the west wall of the bore used as a driveway.

BATTLESHIPS.—Washington, D. C.—Bids for the construction of the two battleships of 20,000 tons authorized by Congress at its recent session were opened on June 20 at the Navy Department. Bids were as follows:

The Fore River Ship Building Co., Quincy, Mass.—Department's designs, $4,400,000; Class 3, builder's designs, Curtis turbines, to be delivered in 34½ months, $4,377,000.

William Cramp & Sons, Ship & Engine Building Co., Beach and Ball Sts., Philadelphia, Pa.—Department's designs, $5,100,000; Classes 3 and 4, builder's designs, 36 months, delivery, speed 21 knots, Parson's turbines, but not including cruising turbines, $5,050,000; same classes, slight changes, $5,030,000.

Newport News Shipbuilding & Dry Dock Co., Newport News, Va.—Department's designs, 36 months delivery, $3,987,000; Classes 3 and 4, Parson's turbines, and including cruising turbines, $4,100,000; department's design, with builder's machinery, etc., Parson's turbines, $4,050,000; same conditions, including cruising turbines, $4,100,000; slight changes, and not including separate cruising turbines, $4,090,000; same as last; with cruising turbines, $4,120,000; slight changes, $4,050,000.

New York Shipbuilding Co., 12 Broadway, New York, N. Y.—Department's design, $4,545,000; department's design, with builder's design, machinery, etc., $4,600,000, with Parson's turbines, but without separate cruising turbines, $4,530,000.

The contracts were awarded to the NEWPORT NEWS SHIPBUILDING & DRY DOCK CO., at $3,987,000, and the FORE RIVER SHIPBUILDING CO., at $4,377,000.

U. S. POSSESSIONS AND CUBA.

ENGINEERING SUPPLIES.—Panama.—Bids are asked at the Office of the Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 a. m., July 16, for furnishing the following articles: Circular No. 374—17 steam shovels, type "A," dipper capacity of 2½ cu. yds.; six unloader plows, 24 push cars, 24 hand cars, jacks, rail-benders, track tools, picks, shovels, tool-handles, wheelbarrows, track torpedoes, lantern globes, milk pails, 61,500 ft. black and galvanized piping with fittings, 3,966 valves of various sizes, material and purposes, bibbs, gage cocks, 11,000 lbs. of oakum, 2,000 lbs. of oakum felt, steel wool, watchmen's watches and ice chests.

LUMBER.—Panama.—Bids were received at the Office of the Isthmian Canal Commission for lumber as follows: Circular 371—(a) Class 14, 2,785 piles of varying lengths as specified, of pine, cypress or fir; (b) Class 15, 13,440 pieces of timber of varying lengths and sizes as specified, of fir, pine or tamarack: A. S. Bacon & Sons, Savannah, Ga., (a) $28,913, (b) $29,664, 100 days; Barney & Hines, Memphis, Tenn., (a) $34,170, (b) $35,905, 120 days; Continental Lumber Co., Houston, Tex., (a) $49,447, (b) $35,722, 150 days; Dixon Lumber Co., Savannah, Ga., (b) $30,798, 90 days; G. Elias & Bro., Buffalo, N. Y., (a) $30,052, (b) $34,712, 120 days; Ensign Lumber Co., Jacksonville, Fla., (b) $28,951, 90 days; L. M. Gex, Bey, St. Louis, Mo., (a) $26,851, 90 days; William D. Gill & Son, 701 President St., Baltimore, Md., (a) $30,176, (b) $30,518, (b 2) $28,142; D. L. Gillespie, 541 Wood St., Pittsburg, Pa., (b) $23,638, 75 days; James Mfg. Co., Tifton, Ga., (b) $27,809, 90 days; George R. Johnson, 1102 American Bldg., Baltimore, Md., (a) $38,113, 150 days; Marbury Lumber Co., Marbury, Ala., (a) $41,603, (a 2) $36,279, 120 days; Salmon Brick & Lumber Co., New Orleans, La., (a) $25,628, (b) $32,102, 90 days; Shipman & Costello, Mobile Bank Co., Mobile, Ala., (a) $36,142, (b) $34,194, 90 days; Robert R. Sizer & Co., 4 Bay St., Jackson St., Jacksonville, Fla., (a) $28,585, (b) $29,200, 90 days; Houlton Lumber Co., New Orleans, La., (a) $28,256, (b) except lumber 1,420 pieces 8 ins. × 16 ins. × 32 ft., $14,817, 90 days.

DREDGES.—Panama.—Bids were received on June 28 at the office of the Isthmian Canal Commission on Circular 369, for two suction dredges according to specifications, to be delivered at any Atlantic, Gulf or Pacific port: Atlantic Equipment Co., New York, to be delivered at New York, $236,500, 410 days; The Bucyrus Co., S. Milwaukee, Wis., to be delivered at New York, $191,800, 260 days; Carr Bros., agents for Lobnitz & Co., New York, to be delivered at New York, $188,560, 250 days; Maryland Steel Co., Sparrow Point, Md., to be delivered at Sparrow Point, Md., $173,500, 195 days; Merrill-Stevens Co., Jacksonville, Fla., to be delivered at Jacksonville, Fla., $99,800, 240 days; The Moran Co., Seattle, Wash., to be delivered at Seattle, Wash., $133,000, 240 days; Newport News Shipbuilding & Dry Dock Co., to be delivered at Newport News, Va., $165,000, 300 days.

MEXICO.

RAILWAY.—Guanajuato.—The Salvatierra & Western R. R. Co. proposes to build a line from Salvatierra, in the state of Guanajuato, Mex., west to Puruandiro, in the state of Michoacan, about 50 miles, and is making preliminary surveys. This line is to be built under a concession given to Andres Bermejillo, of Mexico City. Connection is to be made with the National of Mexico at Salvatierra. C. A. Malau is Ch. Engr.

RAILWAY.—Durango.—B. Clark Wheeler, formerly of Aspen, Colo., who has been operating mines in Mexico for several years, has completed all arrangements for building a railroad between Durango, Mex., and the station of Gutierrez on the Mexican Central Railroad, a distance of 125 miles. The project is to be financed by New York men. The object of the proposed road is to open up the rich Sombrete mining district, which is now remotely situated from railway facilities. Mr. Wheeler is largely interested in the Sombrete camp. Construction will be commenced as soon as the rainy season is over. The line will run within about ten miles of the town of Chalchihuites. Mr. Wheeler has planned to build an electric line from the railroad to that town.

DAM.—A petition has been presented to the Ministry of Fomento by William Mackenzie, contractor for the drainage and sanitation of the City of Monterey, Capital of the State of Nuevo Leon, for permission to make use of 10,000 litres of water per second to be drawn from the Estanzuela River for the purpose of the works. The contractor, it is stated, has already acquired by purchase the rights appertaining to private persons to utilize the normal flow of waters of the Estanzuela River, but it having been ascertained that a sufficiency of water is not available from this source, the petition has been presented to the Ministry of Fomento asking for permission to utilize the flood waters of the river by the construction of a storage dam.

RAILWAY.—Jalisco.—The contract for the first link of the Southern Pacific extension in the State of Jalisco has been let to the MEXICAN CONSTRUCTION CO., of the City of Mexico, of which Maj. Porfirio Diaz, son of the President, is Chief Engr. Work will be started at Orendain, a station on the Ameca line of the Mexican Central, 25 miles west of Guadalajara, as soon as supplies can be assembled and workmen secured. The extension will be built along the definitely located route via Tequila and Tequesquite. The Southern Pacific management has given orders for construction of several buildings at Orendain. The buildings will be used by the construction company and the Southern Pacific engineers. But little right-of-way remains to be secured for the extension in this State. In the Tequila District, where difficulties threatened recently, the land needed by the company has been ceded to it. No further trouble is anticipated.

RAILWAY.—Camargo.—The Mexican Government has under consideration the matter of building important extensions and branch lines of the National Lines system. Announcement as to a part of these plans which have been agreed upon will be made probably soon after the details for the merging of the Mexican Central into the Government system of railways are completed. The most important feature of the proposed extensions is the building of a line of road up the valley of the Rio Grande for a distance of probably 400 miles. The Monterey-Matamoros line of the National now runs down the valley of the Rio Grande from Camargo to Matamoros, a distance of about 80 miles. It is planned to begin the proposed extension at Camargo and follow the valley northwest to a point about opposite Del Rio, Tex. It is about 100 miles from Camargo to Laredo, Tex., and another 100 miles from Laredo to Eagle Pass, Tex. The proposed road will connect with the main line of the National at Nuevo Laredo, opposite Laredo, and with the International, which is also a part of the Government merger system, at Ciudad Porfirio Diaz, opposite Eagle Pass. At Las Vacas, situated 50 miles above Ciudad Porfirio Diaz, the new line will connect with the branch which the Kansas City, Mexico & Orient is building south from San Angelo, Tex. It is intended ultimately to extend the road all the way to El Paso, a distance of nearly 500 miles from Las Vacas, by the course of the river. Engineers are now in the field locating the route for this proposed extension, and active building operations will begin [illegible] time. The proposed road will [illegible] a large coal field which border[illegible] Grande near Mier. Owing to [illegible] railroad transportation it has [illegible] sible to operate this coal deposit [illegible] that the coal surpasses in quali[illegible] coal now being mined in northe[illegible] is expected to be of material b[illegible] industrial development of that [illegible] Government is reported to be [illegible] also the question of building a [illegible] from Matehuala, which is the [illegible] short branch line of the Nation[illegible] ares, a town on the Monterey-Ta[illegible] of the Mexican Central. The p[illegible] will be about 100 miles long, a[illegible] erse a rich section of country.

RAILWAY.—Colima.—The Mexi[illegible] Central Ry. Co. will expend more than [illegible] gold to build the 43 miles of r[illegible] between Tuxpan and Colima and an add[illegible]al Pa-000,000 gold to rebuild the old M[illegible]ican Railroad that runs between [illegible] and the Pacific port of Manzanillo, a[illegible]ance of 60 miles. The engineering and [illegible]truction difficulties encountered in buildi[illegible] the extension of the Tuxpan line exce[illegible] those of any other railroad built up to t[illegible]time in Mexico. It will cost as high as $[illegible],000 per mile to build portions of this ro[illegible] This is figured on a gold basis which is ju[illegible]ne-half of what it would be in Mexican [illegible]rrency. The Mexican Pacific with which [illegible] extension connects at Colima is own[illegible] by the Mexican Central. It will be rebui[illegible] and its gage broadened to standard wid[illegible] There have been many unavoidable delay[illegible] in completing the extension, but it is ex[illegible]ed that the line will be ready for operat[illegible] through to Manzanillo in a few more month[illegible] Mexico City and Central Mexico will then be placed in close touch with the port of Manzanillo on the Pacific Coast. J. H. HAMPSON and D. B. SMITH have the contract for the construction of this extension. Mr. Smith died recently while giving the work his personal attention. Mr. Hampson will carry the contract to a conclusion. The expenditure of more than $50,000 by the contractors in building trails for houses along the proposed grade was made before the active work of building the grade was commenced. The machinery to be used in the work had to be brought in on the backs of burros and raised and lowered by means of ropes when crossing the barrancas. The road is to be built with the resolve that the maximum curve shall not exceed six degrees. The drop from an altitude of 3,715 ft. at Tuxpan to sea level at Manzanillo must be made within a distance of less than 100 miles. There will be only 2½ miles of adverse grade on the whole extension in order to reach an available route from the second crossing of the Tuxpan River. The pace has been set by this road in constructing through the mountains. On other Mexican railroads when traversing territory similar to that crossed by the Mexican Central between Tuxpan and Colima the grades are as much as three per cent. and some of the curves are fifteen degrees. A big item in the construction of the extension is the large number of bridges that have to be built. There will be 15 of these bridges and all are to be of heavy structural steel. Good progress is being made in their construction. The total weight of the 15 bridges is 10,696,000 lbs. Most of them are of short lengths. Several tunnels will have to be bored. They run through a rock formation that is not of a very stable character and unusual difficulties are encountered in making these openings. Particular attention has to be given to their lining. Concrete blocks are to be used for the arches and cut stone forms the material for the side walls of the tunnels. The Belgian system of constructing these tunnels is followed. It is stated that under this system the danger of rock falling from above is reduced to a minimum. The rock formation is badly broken up by volcanic and earthquake disturbances and it is impossible to obtain solidity of the roofs of the tunnels except by concrete or block stone work. There are a great number of small arroyas or ditches on the extension. Many of them are of a size sufficiently large to warrant the spanning by steel bridges. Masonry work has been adopted, however, for all these smaller waterways and drains. A feature of the road is the large amount of masonry which is being put in. Some of these masonry culverts are of unusually large size and mark a new departure in railroad construction in Mexico. One of these culverts is nearly 30 ft. in diameter and 100 ft. high. It is 350 ft. long, counting the fill of earth and rocks which are blasted down from above. The highest bridge on the line will be over the Santa Rosa barranca. It will be more than 300 ft. high. Heavy construction will be encountered on that part of the road which is to cross the Salada arroya. There, two tunnels will have to be driven, close together. One of these tunnels will be about 650 ft. long and the other about 300 ft. long. The last named tunnel will open on the Carpentero barranca which will require 1,050,000 lbs. of steel to be used in its bridging. This bridge will consist of three deck spans. One will be [illegible] ft. long, another 200 ft. long and the third [illegible] ft. long. On the other side of this barranca another tunnel that will be about 250 feet long. The Salada arroya will be spanned by 26-foot masonry culverts. The barrancas become wider apart the nearer the town of Colima is approached, but there are a number of bridges and some heavy fills and cuts even after the rougher region more adjacent to the volcano is left behind. The line from Colima to the port of Manzanillo is largely reconstructed. The grade of the old Mexican Pacific road will be used with the exception of a distance of about six miles. This new grade will be constructed to avoid possible overflows from the Armeria River. The gage of the old road will be widened to standard width and new rails put down. All of the bridges will be replaced with heavy steel structures. An arm of Cuyutlan Lake will be spanned with one of the bridges and another bridge will be built over the Armeria River. At Manzanillo extensive terminals and port facilities are to be built.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

WATER WORKS AND FILTER.—Medina, Ohio.—Following are the bids received June 21 for water works and development of natural gas: (A) E. G. Bradbury and G. P. Shute, Columbus, Ohio. Bids were submitted by (A) Nugent & Smith, Medina; (B) Wilson & Applegate, Alliance; (C) Medina Concrete Co. and E. A. Brown, Medina; (D) T. C. BROOKS & SONS, Mich. (awarded contract); (E) Phillips Bixel, Cleveland, Ohio; (F) Nitschke & Davison, Cleveland; (G) Wildes & Loomis, Akron, Ohio; (H) Tibbets & Cleveland; (I) James Winterbottom,

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
24,432 ft. excavation in trench	$0.20	$0.22	$0.22	$0.12	$0.20	$0.34	$0.16	$0.21	$0.20
7,600 ft. 4" cast-iron pipe, laid	.68	.48	.51	.42	.48	.50	.49	.57	.56
1,566 ft. 6" cast-iron pipe, laid	.89	.77	.76	.70	.75	.75	.74	.84	.84
13,338 ft. 8" cast-iron pipe, laid	1.13	1.07	1.13	1.09	1.10	1.10	1.16½	1.16	1.15
50 ft. 12" cast-iron pipe, laid	1.79	2.05	1.80	2.04	2.00	2.00	1.84	2.15	2.02
1½ tons cast-iron specials	160.00	61.00	87.50	100.00	75.00	90.00	70.00	70.00	90.00
28 4" valves with box, each	13.00	15.18	11.50	12.75	14.25	10.00	10.00	18.00	14.00
9 6" valves with box, each	18.25	20.00	17.52	17.85	20.50	15.00	15.00	27.00	18.00
17 8" valves with box, each	25.00	23.00	24.80	23.85	28.25	20.00	22.00	34.00	25.00
16 hydrants, each	33.35	28.50	33.41	33.00	28.00	40.00	35.00	36.00	35.00
730 ft. 8" vitrified pipe, laid	.75	.20	.17	.20	.25	.15	.15	.28	.25
630 ft. 6" vitrified pipe, laid	.75	.15	.14	.20	.20	.10	.12	.25	.20
693 cu. yds. excavation at river	9.22	.75	1.25	1.20	1.00	3.00	1.00	1.45	.80
76 cu. yds. concrete	11.75	10.00	9.00	10.00	12.00	12.00	8.00	12.00	9.00
10 steel rods, 4 ft. long, each	.50	1.00	.50	.20	.50	.50	.50	.50	5.00
36 cu. yds. gravel backing	6.00	.75	.25	.50	.50	1.00	.25	.25	.20
¼ M. flash boards	30.00	40.00	50.00	30.00	60.00	30.00	40.00	25.00	29.00
Totals	$36,875	$27,724	$28,972	$25,360	$28,071	$32,803	$27,397	$30,669	$29,190

*SEWERS.—Ottawa, Ill.—The following bids were submitted to the Board of Local Improvements for constructing a sewer system at Ottawa. The bidders were: (A) GREEN & SONS, 84 La Salle St., Chicago (awarded contract); (B) Nash Bros., 84 La Salle St., Chicago; (C) H. D. Hallett, Aurora, Ill.:

	(A)	(B)	(C)
200 ft. 60" concrete in tunnel	$12.20	$13.50	$5.50
975 ft. 50" x 75" concrete in ravine	11.20	11.50	11.40
10 ft. tapering concrete, 60"—50×75"	15.20	16.00	11.40
1,050 ft. 50" x 75" concrete (deep cut)	9.20	8.90	6.30
845 ft. 40" x 60" concrete	8.70	8.60	4.20
832 ft. 30" x 45" concrete	5.70	6.70	4.20
800 ft. 28" x 42" concrete	6.20	6.60	4.20
760 ft. 24" x 36" concrete	5.20	5.00	4.10
1,440 ft. 24" pipe in ravine	2.25	2.60	3.00
1,760 ft. 24" pipe (deep cut)	2.25	2.40	2.40
3,049 ft. 20" pipe	2.00	2.25	2.00
7,701 ft. 18" pipe	2.00	2.25	1.60
8,710 ft. 15" pipe	1.50	2.00	1.10
8,057 ft. 12" pipe	1.00	1.50	1.00
4,558 ft. 10" pipe	.90	1.00	.90
6,475 ft. 8" pipe	.90	.80	.50
5,150 ft. 8" pipe inlet connection	.60	.80	.50
18,800 ft. 6" pipe house connection	.30	.50	.40
1,496 manholes	2.50	3.00	4.00
235 street inlets	10.50	12.00	7.20
151 cu. yds. concrete walls	10.20	11.00	10.00
147,220 lbs. iron castings	.02	.02½	.03
3,780 lbs. wrought iron	.03	.03	.06
35,000 ft. sheet piling	30.00	40.00	40.00
1,600 cu. yds. gravel	2.00	2.00	2.00
1,320 cu. yds. mud	1.00	1.50	1.00
200 ft. rock in tunnel	6.00	8.00	5.00
36,000 ft. rock	1.75	2.00	2.40
Totals	$190,874	$222,857	$201,405

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ——, ——. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

RAILWAY.—Norway.—The Storthing has approved the proposal of the Railway Committee to reconstruct the Drammen-Randsfjord Railway and the branch line from Hongsund to Kongsberg at a cost of $1,000,000.

PORT EXTENSION.—Germany.—The city of Hamburg has voted an appropriation of $14,375,000 for extension of the port, which includes the development of the harbor of Hamburg on the south arm of the River Elbe, opposite Hamburg.

ELECTRIC MOTORS.—France.—A scheme for the distribution of electric light and power in the town of La Rochelle is likely to mature before long, and in this case there may be an opening for small electric motors suitable for use in workshops of various trades.

RAILWAY.—Brazil.—Dr. Joaquim Catramby is said to have sold to a London syndicate the concession for the construction of a railway from Santo Antonto on the River Madeira to the town of Murtinho. A commission is on the way from London to survey the line.

RESERVOIR.—Brazil.—The Manaos Improvements Co. has chosen the site for the proposed reservoir which is to supply the city of Manaos. The point which is called Ponta do Ismael is 600 metres above Umirysal and the engineers of the improvements company state that they find it a favorable position.

ELECTRIC RAILWAY.—Austria.—American interests are planning construction and operation of a high speed electric traction system between Budapest and Vienna. The line is expected to attain a speed of no less than 80 miles an hour. The building of the projected road will call for an expenditure of $25,000,000.

DRY DOCK.—Australia.—A company has been formed for construction of a dry dock at Adelaide, South Australia. Work will be proceeded with at once. The dock will be built of jarrah wood obtained from West Australia, and it is estimated that about $28,000 worth of machinery will be required for its completion.

RAILWAY.—Argentine Republic.—The Argentine Congress has been asked to sanction a project for construction of a railway line from Neuquen to the Chilian frontier. This line will cross Las Lajas and enter the Pino Hachado zone; it will terminate on the border near the Pino Hachado Pass or the Arco Pass, leading to the valley of the Bio Bio River.

IRON PIER.—Turkey.—The Municipal Council of the city of Trebizond, under the presidency of Djamel Bey, has decided to build at this port an iron pier to facilitate loading and unloading merchandise. The pier is to be 10 meters wide and 60 meters long. Detail of construction and purchase of materials are not yet decided on, but any construction party interested may address Milo A. Jewett, the American Consul at Trebizond, who will be pleased to furnish further information as it is obtainable. It will have two iron tracks for hand cars to transport merchandise to and from the custom house. This will greatly improve the facilities for handling goods at this port, as at present steamships are quite frequently unable to load or unload in rough weather.

RAILWAY.—France.—A system of local railways lines, of 1 metre gage, is to be constructed in the Charente Department, and should prove an invaluable instrument for developing the agricultural, industrial and commercial resources of the district. The system will comprise seven different lines of a total length of 213 miles, the longest being from Angouleme to Confolens by St. Angeau and Champagne-Mouton, 48 miles, and the shortest from Blanzac to Villebois-Lavalette, a little over 14 miles.

DREDGING.—Costa Rica.—The Government has adopted plans for dredging several creeks which connect a series of lagoons leading to the Reventazon River, making the entire distance navigable for light-draft vessels, which will open up a valuable and extensive tract of rich banana lands, providing transportation for the fruit product direct to the ocean steamers lying in the open roadstead, or with a slight dredging of the bar these ships could enter a protected harbor to receive their cargoes.

PUBLIC WORKS.—Argentine.—A measure will come up for consideration shortly in the La Plata Provincial Senate authorizing the Executive to contract a loan of $40,000,000, which is to be expended on the following public works: Southern Drainage Scheme, $10,000,000; construction of police stations, courts, registry offices, &c., throughout the province, $10,000,000; construction and exploitation of a railway line from La Plata to the Fifth Meridian, $10,000,000. The remainder, $10,000,000, will be used for purposes of water installation in the towns of the province.

HOTEL.—Argentine Republic.—A hotel to be called the Phoenix and two large office buildings are soon to be built on the Calle Florida, one of the principal thoroughfares in Buenos Aires. All the steel to be used in the erection of the buildings, also all the mechanical and power equipments, are to be of United States manufacture. The plans call for American methods to be employed throughout. The buildings will cost about $3,000,000. The UNITED STATES STEEL PRODUCTS EXPORT CO., 21 State St., New York, N. Y., has obtained the contract for the steel.

RAILS.—Uruguay.—**THE UNITED STATES STEEL PRODUCTS EXPORT CO., 21 State St., New York, has obtained a contract for about 5,000 tons of steel rails to be used in** the construction of an electric traction system in Montevideo, the capital of Uruguay. The property will be known as the United Electric Tramways of Montevideo. The system will be about 85 miles long, and is expected to be in operation this fall. The road is being built by J. G. White & Co., Ltd., of London, which concern is the British affiliation of the New York electrical engineering and contracting firm of the same name. The construction and equipment of the line will cost about $2,000,000.

HARBOR WORKS.—Martinique.—Projects of works that it is proposed to undertake to facilitate the commercial transactions in the harbor of Fort de France are being planned. The harbor includes two parts, separated by the Peninsula of Fort St. Louis; one, called Carenage, comprehends a bay from 20 ft. in draft of water, in the entrance of which is the dry dock. This dock, which has now a length of 129 meters, must receive soon a very important improvement. A project accepted by the Technic Committee of the Public Works of the French Colonies Department comprehends a form of 200 meters, with new machinery, permitting the pumping out in five hours. The total cost for lengthening the dock and for the transformation of the machinery and the workshops will amount to $347,400. The principal part of the harbor, the one situated under the lee and at the west of the Fort St. Louis, is the bay of the Flamands. A general project comprehends in the first place the building of metallic and brick wharves for the loading and unloading of the goods. The two jetties will be constructed only if the importance of the movements of the harbor should require it. The town of Fort de France will be provided with abundant and wholesome water, and this project will be partially carried out in some months, and the ships will then have more facilities than now for their water supply. All these works will be executed with the help of a loan which will be placed in France by the colony.

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—
Pittsburg, f. o. b. cars—Angle bars, 1.65 to 1.75 cts.; spikes, 2.25 to 2.45 cts.; bolts, square nuts, 2.65 to 2.75 cts.; bolts, hexagonal nuts, 2.80 to 2.90 cts.

RAILS, STEEL—
New York—at mill—New standard sections, $28; standard, second quality, $27; light sections 12 to 25 lbs., $31 to $33; old iron f. o. b. New York, $25 to $25.50; old steel, long lengths, $17.50 to $18; old steel, short pieces, $16.50 to $17.
Pittsburg—Standard sections, at mill, $28; standard, second quality, $27 to $28; light rails, 20 to 45 lbs., $32; 16-lb., $33; and 12-lb., $34 at mill.

STRUCTURAL MATERIALS—
New York—at tidewater—Beams and channels, up to 15-in., 1.84½ cts.; over 15-in., 1.84½ cts; angles, 3 x 2 and up to 6 x 6, 1.84½ cts.; zees, 3-in. and larger, 1.89½ cts.; tees, 3-in. and larger, 1.89½ cts.; steel bars, half extras, 1.74½ cts.

PLATES AND SHEETS—
New York—at tidewater—Sheared plates tank, 1.84½ to 1.94½ cts; flange, 1.94½ to 2.09½ cts.; marine, 2.14½ to 2.19½ cts.; still bottoms, 2.14½ to 2.29½ cts.; fire-box, 2.75 to 3.50 cts.
Pittsburg—Tank, ¼-in. thick and heavier, 1.70 to 1.80 cts.; black sheets, 27-gage, 2.50 to 2.55 cts.; black sheets, 28-gage, 2.60 to 2.65 cts.

IRON—
Pig Iron:
At New York—tidewater—

Northern—	
No. 1 X foundry	$26.50 to $27.00
No. 2 X foundry	25.00 to 26.50
No. 2 plain	24.50 to 26.00
Gray forge	24.00 to 25.00
Basic	24.50 to 25.00
Virginia—	
No. 1 foundry	26.50 to 27.00
No. 2 foundry	26.00 to 26.50
Basic	23.50 to 24.50
Southern—	
No. 1 foundry	26.50 to 27.00
No. 2 foundry	26.00 to 26.50
No. 3 foundry	25.50 to 26.00
No. 4 foundry	24.50 to 25.00
No. 1 soft	26.00 to 27.00
No. 2 soft	25.50 to 26.00
Gray forge	23.50 to 24.00
Mottled	22.50 to 23.00

At Chicago—

Lake Superior Charcoal	$27.50 to $28.00
Northern Coke Foundry, No. 1	26.50 to 27.00
Northern Coke Foundry, No. 2	26.00 to 26.50
Northern Coke Foundry, No. 3	25.50 to 26.00
Northern Scotch, No. 1	26.50 to 27.00
Ohio Strong Softeners, No. 1	26.00 to 26.50
Ohio Strong Softeners, No. 2	25.50 to 26.00
Southern Coke, No. 1	26.85 to 27.35
Southern Coke, No. 2	26.35 to 26.85
Southern Coke, No. 3	25.85 to 26.35
Southern Coke, No. 4	25.35 to 25.85
Southern Coke, No. 1 Soft	26.85 to 27.35
Southern Coke, No. 2 Soft	26.35 to 26.85
Southern Gray Forge	24.85 to 25.35
Southern Mottled	24.85 to 25.35
Malleable Bessemer	26.00 to 26.50
Standard Bessemer	24.80 to 25.30
Jackson Co. and Kentucky Silvery, 6%	31.30 to 31.80
Jackson Co. and Kentucky Silvery, 8%	32.30 to 32.80
Jackson Co. and Kentucky Silvery, 10%	33.30 to 33.80

At Pittsburg, f. o. b. cars—

No. 2 foundry	$25.00 to $26.00
Gray forge	22.50 to 23.00
Bessemer iron	23.50 to 24.50
Ferromanganese	64.00 to 66.00
Muck bars	37.50 to 38.00
Iron bars	1.75
Cut nails	2.05

Cast-iron Pipe:
New York—Carload lots, net tons, 6-in., at tidewater, $34.50 to $35.
Chicago—4-in. water pipe, $37 to $38; 6-in. to 12-in., $36 to $37; over 12-in., $35 to $36, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—
Asphaltum:
Ventura and other California asphalts, $20 to $23 per ton at New York; Trinidad refined, $22 to $25 per ton; Venezuela asphalt, $25 to $30 per ton; Bermuda asphalt, $25 to $35.
Cement:
Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.
Copper:
Lake, 25.75 to 23.50 cts.; electrolytic, 25.37½ to 22.12½ cts.; casting, 24.87½ to 21.12½ cts.
Lead:
New York, spot, 6.30 to 5.75 cts.
Spelter:
New York, spot, 6.90 to 6.40 cts.
Tin:
New York, spot, 42.75 to 43.25 cts.
Tar:
New York, $5.85 to $6 per bbl.
Pitch:
New York, $3.20 per bbl.

LUMBER—
New York, wholesale prices:
Piling—Spruce, ordinary cargoes, 6 to 7 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft. and up, 25 cts.; pine, 60 to 65 ft., $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50; 80 ft. and up, $16.
Railroad ties—Yellow pine, 6 x 9 ins. x 8 ft., 67 to 69 cts.; 6 x 8 ins. x 8 ft., 62 to 64 cts.; 7 x 9 ins. x 8 ft., 75 to 77 cts.; 7 x 8 ins. x 8½ ft., 74 to 75 cts., 7 x 9 ins. x 8½ ft., 79 to 80 cts.

CIVIL SERVICE EXAMINATIONS.

CHEMIST.—New York, N. Y.—An examination will be held by the Municipal Civil Service Commission, on Aug. 2, at 10 a. m., for the position of chemist, at $1,200 a year. Applications will be received until 4 p. m., July 16. Frank A. Spencer is Secy.

APPRENTICE.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on July 29, 1907, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Apprentice in the Mint and Assay Service at Philadelphia, Pa., New Orleans, La., Denver, Colo., and San Francisco, Cal., at salary as follows: First year $3.50, second year $4, and third year $4.50 a day. It will not be necessary for applicants to appear at any place for examination. Age limit, 18 to 24 years, inclusive. Application form 304.

AID.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on July 17-18, to secure eligibles from which to make certification to fill at least six vacancies in the position of Aid in the Coast and Geodetic Survey, at $720 a year each, which will occur in July, 1907, and similar vacancies as they may occur. As the Commission has experienced considerable difficulty in securing a sufficient number of eligibles for this position to meet the needs of the service, qualified persons are urged to enter this examination. Age limit, 18 to 25 years. Application form 1312.

HEATING AND VENTILATING DRAFTSMAN.—Washington, D. C.—On July 24-25 the U. S. Civil Service Commission will hold an examination to secure eligibles from which to make certification to fill a vacancy in the position of Heating and Ventilating Draftsman, at $1,200 a year, in the Supervising Architect's Office, and several vacancies in that position as they may occur during the period of eligibility at salaries ranging from $1,200 to $1,600 a year. As the Commission has had considerable difficulty in securing a sufficient number of eligibles for this position to meet the needs of the service, qualified persons are urged to enter this examination. Age limit, 20 years. Application form 1312.

REPAIRMAN.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on July 24, to secure eligibles from which to make certification to fill two vacancies in the position of Repairman, at $720 a year each, in the Weather Bureau, Department of Agriculture, one for duty on the Port Crescent-Tatoosh Island Telegraph Line (in the state of Washington), and the other for duty on the Cape Henry, Va.-Hatteras, N. C., Telegraph Line, and vacancies as they may occur in any branch of the service requiring similar qualifications. As the Commission has experienced considerable difficulty in securing eligibles for this position, qualified persons are urged to enter this examination. Applicants must indicate in their application that they have had experience both as telegraph line repairman and as telegraph operator. No educational test will be given, and it will not be necessary for applicants to appear at any place for examination. Age limit, 20 years. Application form 1093.

READERS' WANTS

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

Also ask for our BUYERS' GUIDE

BLUE STONE.—Westfield, N. J.—E. W. Chamberlin, 117 Central Ave., Westfield, writes us that he desires to learn the names of firms quarrying blue stone for sidewalks and curbs.

FIRE ESCAPES, GAS FIXTURES, ETC.—Schenectady, N. Y.—We are advised that J. W. Hughes, 775 Hattie St., Schenectady, is in the market for fire escapes, gas lighting fixtures, slate blackboards and builders' hardware.

SUCTION GAS PLANT AND ENGINE.—Buenos Aires, Argentina.—We are in receipt of a letter from Chas. H. Bell, care of J. W. Richards, 564 Cangello, Buenos Aires, stating that he desires information and prices, f. o. b., New York, of suction gas plant and engine for contractor's use with the weight of the same.

INDUSTRIAL NOTES.

A. L. IDE & SONS, makers of the "Ideal" Engine, Springfield, Ill., advises us that their New York office, formerly at No. 11 Broadway, is now located at No. 90 West St.

THE EUREKA MACHINE CO. moved into its new factory building at Lansing, Mich., on July 1st. The new monolithic concrete factory building is now finished, and will give largely increased capacity to take care of growing business.

THE CHICAGO PORTLAND CEMENT CO., Chicago, Ill., states that statements to the effect that the company was in any way connected with a consolidation of the cement producers of the La Salle Valley are entirely false and without foundation.

THE BUCYRUS COMPANY, South Milwaukee, Wis., announces that, conjointly with its Philadelphia agent the Standard Supply & Equipment Co., it has established an office in New York City at 811 Singer Building, Broadway and Liberty St., under the management of Mr. James M. Reed.

THE NORTHERN ENGINEERING WORKS, Detroit, Mich., have sold the following cranes for power station work: Buffalo & Susquehanna Coal Mining Co., Sagamore, Pa., 24-ton crane, 62-ft. span; Winchester & Washington City Ry., 6-ton crane; Watertown Electric Light Co., 5-ton crane.

THE RIDGWAY DYNAMO & ENGINE CO., Ridgway, Pa., builders of the McEwen engine and the Thompson-Ryan dynamo, have appointed Samuel W. Hay's Sons, 302 Farmers' Bank Bldg., as their Pittsburg sales agents in charge of the Pittsburg district, Southeastern Ohio, and Northern West Virginia.

THE CROCKER-WHEELER CO., Ampere, N. J., states that in order to handle the business in electric generators and motors in Southern Ohio, the Cleveland office of the company has found it advisable to open a sub-office in the Columbus Savings & Trust Co. Bldg., Columbus, O. The sub-office will be in charge of Chas. W. Cross, formerly of the Cleveland office.

THE B. F. STURTEVANT COMPANY, of Boston, Mass., announces the following recent sales of electric propeller fans: Bausch & Lomb Optical Co., Rochester, N. Y.; Washington Water Power Co., Spokane, Wash.; Sewer Pumping Station, Washington, D. C.; J. T. Stanley, New York City; American Lithographing Co., New York City; Brace Brothers, Wilkinsburg, Pa.; G. W. Miller, Toronto, Ont.; Klots Throwing Co., Scranton, Pa.; Hotel Touraine, Boston, Mass.; St. Augustin's R. C. Church, Newark, N. J.; Victor Talking Machine Co., Camden, N. J.; Stecher Lithographic Co., Rochester, N. Y.; Lewis & Kitchen, Kansas City, Mo.; Hermit Club, Cleveland, Ohio.; and Why Lunch Co., New York City.

THE FERGUSON CONTRACTING COMPANY, Pittsburg, and the Coal and Coke Railroad, of West Virginia, have resorted to arbitration, instead of a suit at law, for the purpose of settling a dispute involving about $300,000, between the two companies. The railroad runs through the heart of the coal region of Central West Virginia, and is owned by former Senator Henry G. Davis. The Ferguson Company built it and claims approximately $1,000,000 for the work, of which $700,000 has been paid. Mr. Davis insists that the latter sum is all that was due, but, after considerable negotiation, it was agreed to submit the question to three arbitrators.

The board consists of J. Q. Barlow, chief engineer of the Western Maryland Railroad; Thomas H. Walker, former chief engineer of the Illinois Central Railroad, and A. B. Richmond, an attorney, of Cumberland, Md. Representing the Ferguson Company are former Senator John G. Carlisle, of Kentucky; R. H. Hibbard, of New York, and A. L. Thurman, of Columbus. C. W. Dailey, of Elkins, W. Va., is counsel for the railroad. The parties to the arbitration have agreed to abide by the decision of the committee.

THE NATIONAL CEMENT CO. will break ground within a month, according to reports, for a large plant at Carpentersville, Warren Co., N. J., which will have a capacity of 10,000 bbls. per day. The company is organized under the laws of New Jersey, and of the $2,000,000 capital $1,700,000 have already been paid in. The object of the company is not only to operate the plant at Carpentersville, but also to acquire producing cement properties over a very wide area. Options have been secured on three plants, and negotiations are under way for four other mills, giving a total capacity of these seven plants including the one to be built of 27,000 bbls. per day. The new plant which is to be in operation by May 1, 1908, will be one of the largest, if not the largest, in the country, and will take its supply of limestone from a 110-acre property adjoining that of the Alpha Portland Cement Co. It will be modern in every respect and give employment to 950 men. Mr. C. L. Murphy, New York, is president of the company; Mr. F. E. Wareman, vice-president; Mr. R. W. Emerson, treasurer; Mr. J. K. Baillie, Jr., New York, secretary; Mr M. W. Lyon is consulting engineer, and also a member of the board of directors.

TRADE PUBLICATIONS.

DISK WHEEL FANS.—Buffalo Forge Co., Buffalo, N. Y. Paper; 3½ × 6½ ins.; pp. 4; illustrated.

Fans in stock for immediate shipment are mentioned in this small flyer.

STEAM TRAP.—Richard J. Flinn, West Roxbury, Mass. Paper; 6½ × 9 ins.; pp. 4; illustrated.

The capacity, operation and application of the Flinn differential trap are shown in these few pages.

BLUE PRINTING MACHINE.—Buckeye Engine Co., Salem, Ohio. Paper; 4¼ × 6½ ins.; pp. 18; illustrated.

A few points of construction and a list of users of the Buckeye machine are given in "The A. B. C. of Blue Printing."

PORTABLE AIR COMPRESSOR.—Allis-Chalmers Co., Air-Brake Dept., Milwaukee, Wis. Paper; 8 × 10½ ins.; pp. 4; illustrated.

These few pages show the make-up of the Christensen portable motor-driven air compressor.

GASOLENE ENGINE VALVES.—The Lunkenheimer Co., Cincinnati, Ohio. Paper; 3½ × 6 ins.; pp. 24; illustrated.

Several types of Lunkenheimer generator valves, to replace the usual check valves on the crank case of two-cycle gasolene engines, are herein described.

SANITARY SHOP EQUIPMENT.—The Manufacturing Equipment & Engineering Co., 209 Washington St., Boston, Mass. Paper; 3½ × 7¼ ins.; pp. 24; illustrated.

A line of wash bowls, lockers, chemical kettles, stools, benches, racks, etc., is briefly described in a small leaflet.

HEATING APPARATUS. — The McCrum-Howell Co., 46-48 East 20th St., New York City. Leaflets. Paper; 6 × 9 ins.; pp. 16; illustrated.

Data, descriptions and prices are given in these loose sheets concerning columns and indirect radiators for steam and hot water.

RECORDING VOLTMETER.—The Bristol Co., Waterbury, Conn. Bulletin 57. Paper; 8 × 11 ins.; pp. 4; illustrated.

Bristol's, Type S, voltmeter for use on both alternating and direct current circuits is the theme of this bulletin. This instrument is made in switchboard and portable forms.

PAINTS AND SURFACERS.—St. Louis Surfacer & Paint Co., St. Louis, Mo. Paper; three folders; illustrated.

These folders relate to surfacing and finishing paints for iron and steel cars, locomotives, wagons, etc.; also special canvas roof paints for cars. Color cards accompany the folders.

STEAM LOCOMOTIVES. — Baldwin Locomotive Works, Burnham, Williams & Co., Philadelphia, Pa. Record No. 61. Paper; 9 × 6 ins.; illustrated.

This pamphlet is a reprint of an article in "Cassier's Magazine," January, 1907, by Mr. L. H. Fry, entitled "The Steam Locomotive of the Future."

For other Proposal Advertisements see pages 55, 56, 57, 58, of Advertisements and Construction News page 8.

RAILROAD GRADING.

Pensacola, Fla.

Proposals for grading 40 miles of the Pensacola, Alabama & Western Railroad will be received at the office of the Interstate Contract Co., 224 Brent Building, Pensacola, Fla., until noon, JULY 20TH, 1907, instead of July 10th, as previously stated.

Plans, profiles, specifications and forms of proposals for work can be seen at the above address. B. K. ROBERTS,

1-1t For the Interstate Contract Co.

SEALED PROPOSALS.—Fort Monroe, Va., June 29th, 1907.—Sealed proposals in triplicate for the reconstruction and extension of the railroad track, at Fort Monroe, Va., will be received at the Office of the Constructing Quartermaster, until noon, July 30, 1907. Separate bids in triplicate will be received at the same time for 1 10-ton 6-wheeled locomotive, 2 open 12-bench passenger cars, and 1 double-trucked flat car. The United States reserves the right to accept or reject any part or all proposals or any part thereof. Bidders must state name of manufacturer supplying them material. Information furnished on application. Bids should be plainly marked as such on the outside wrapper or envelope. Address CAPTAIN R. H. C. KELTON, Q. M. 1-4t

THIS ADVERTISEMENT SUPERSEDES BOARD OF WATER SUPPLY ADVERTISEMENT ON PAGE 61.

CATSKILL AQUEDUCT.

BOARD OF WATER SUPPLY.
Office of the Board of Water Supply, 299 Broadway, New York City.

CONSTRUCTING MAIN DAMS FOR ASHOKAN RESERVOIR IN ULSTER COUNTY, N. Y.

SEALED BIDS OR PROPOSALS WILL BE received by the Board of Water Supply at the office of the Secretary, 299 Broadway, New York, Room 911, ninth floor, until 2 p. m. on Tuesday, August 6th, 1907,

FOR THE CONSTRUCTION OF THE MAIN DAMS FOR ASHOKAN RESERVOIR NEAR BROWN'S STATION, IN THE TOWNS OF OLIVE AND MARBLETOWN, ULSTER COUNTY, NEW YORK.

At the above place and hour the bids will be publicly opened and read. The award of the contract, if awarded, will be made by the Board of Water Supply as soon thereafter as practicable.

This work is authorized by Chapter 724, Laws of 1905, of the State of New York.

The principal items in the Engineer's estimate of the work are as follows:

Removing steel pipes, when directed.
Control of stream flow, Olive Bridge dam.
Control of stream flow, Middle dike.
2,055,000 cu. yds. earth excavation.
425,000 cu. yds. rock excavation.
7,055,000 cu. yds. refilling and embanking.
210,000 cu. yds. soil for surface dressing.
1,100,000 bbls. Portland cement.
280,000 cu. yds. concrete masonry.
530,000 cu. yds. cyclopean masonry.
64,000 cu. yds. concrete blocks.
125,000 sq. ft. face dressing for concrete.
95,000 cu. yds. dry rubble paving.
929,000 lbs. cast and wrought iron, steel and bronze.
Caring for and setting 900,000 lbs. of metal work furnished by the city.
200 acres clearing.
11,500 lin. ft. vitrified pipes not exceeding 10 inches in diameter.
10,000 lin. ft. vitrified pipes more than 10 inches and not exceeding 18 inches in diameter.
950 M. ft. B. M. timber and lumber.

For additional details and other items see contract.

Two or more bonds, the aggregate penalties of which shall be one million dollars ($1,000,000), will be required for the faithful performance of the contract. Each bond must be signed by the Contractor and the sureties. The name and address of each surety offered must be stated in the bid or proposal, together with the amount in which each surety will qualify. The sureties and the amount in which each will qualify must be satisfactory to the Board.

No bid will be received or considered unless accompanied by a certified check upon a national or state bank in The City of New York, drawn to the order of the Comptroller, to the amount of two hundred and fifty thousand dollers ($250,000).

Time allowed for the completion of the work is eighty-four months from the date of service of notice by the Board to begin work.

Pamphlets containing further information for bidders, forms of proposal, contract and bond, approved by the Corporation Counsel, and specifications; and pamphlet containing contract drawings can be obtained at the office of the Board of Water Supply, Room 1515, 299 Broadway, upon application in person or by mail, by depositing the sum of ten dollars ($10.00), in currency, or check drawn to the order of the Board of Water Supply, for each pamphlet to secure the return of the same in good condition within sixty days from the date on which bids are to be opened.

J. EDWARD SIMMONS,
President;
CHARLES N. CHADWICK,
CHARLES A. SHAW,
Board of Water Supply.
J. WALDO SMITH,
Chief Engineer,
THOS. HASSETT,
Secretary. 1-4t

BRICK PAVING.

Sharpsville, Pa.

Proposals for improving Main and Walnut Streets will be received by the Borough Council of Sharpsville, Pa., as follows:

Streets to be paved with vitrified paving block on six-inch concrete base and filled with an asphalt filler, approximately 11,700 sq. yds.

All bids to be sealed [illegible] Council not later than [illegible] meeting of Council, Tue[illegible] 1907, when said bids will [illegible]

Each bid must be accom[illegible]fied check of One Thousa[illegible] as a guarantee that the s[illegible] sign the contract. Check [illegible]able to Borough Secretar[illegible] Agnew.

The successful bidder [illegible]quired to furnish one Ten ($10,000) indemnity bond. [illegible] bond of not less than one-f[illegible] amount of the work.

The Borough reserves t[illegible] any or all bids.

All bids must be sealed [illegible] W. A. Graber, Boro. Secre[illegible] fications may be had on [illegible]

W. A. [illegible]RABER,
Secretary.

Sharpsville, Pa., June 29, [illegible]907. 1-1t

DREDGING

Commonwealth of Ma[illegible]chusetts,
Board of Harbor and Land [illegible]ommissioners,
State House, Boston, [illegible]e 29, 1907.

Sealed bids or proposals [illegible]or dredging a channel in West Falmouth [illegible]harbor in the town of Falmouth and an a[illegible] in Nantucket harbor to increase the anch[illegible]age area near the wharves, addressed to [illegible]e Harbor and Land Commissioners, and [illegible]ndorsed "Proposals for Dredging," will be received at the office of the Commissioners, Room 131, State House, Boston, Mass., until [illegible] o'clock P. M. Friday, July 12, 1907, and then and there will be publicly opened and read. The work to be done is the dredging of about 11,300 cubic yards situ measurement to excavate a channel 50 feet wide and [illegible] feet deep at mean low water in West Falmouth harbor, and the dredging of about 28,000 cubic yards situ measurement to deepen to the depth of 12 feet at mean low water an area lying northeastely of the steamboat wharf in Nantucket harbor. All proposals must be made upon blank forms which, together with other information in regard to the work, may be obtained at the office of the Board, where plans and specifications may be seen. Each bidder will be required to give to the Board satisfactory assurance of his competency, experience and responsibility. The right is reserved to reject any and all bids and to waive any defect or informality, at the discretion of the Board.

GEORGE E. SMITH,
HENRY J. SKEFFINGTON,
SAMUEL M. MANSFIELD,
Harbor and Land Commissioners.
FRANK W. HODGDON, Chief Engineer.
1-1t

Office of the President of the Borough of Richmond,
Richmond Borough Hall,
St. George, New Brighton, New York City.

Sealed bids or estimates will be received by the President of the Borough of Richmond, at the above office, until 12 o'clock m. on Tuesday, July 30, 1907, Borough of Richmond. No. 1. For furnishing all the labor and materials required for constructing reinforced concrete retaining walls on Jay Street and South Street, and other work in connection with the St. George ferry approach.

Bidders are requested to make their bids or estimates upon the blank form prepared by the President, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the said President. The plans and drawings may be seen and other information obtained at the office of the Commissioner of Public Works of the Borough of Richmond, Borough Hall, New Brighton, Borough of Richmond. For full particulars see City Record.

GEORGE CROMWELL,
President.

The City of New York, June 25, 1907. 1-4t

Situations Open

DRAFTSMEN AND CHECKERS on structural steel work for buildings. State experience and salary wanted. GEORGE A. JUST CO., 239 Vernon Ave., Long Island City. 1-1t

ONE OR TWO STRUCTURAL DETAILERS of two or three years experience on building and bridge work. Permanent position to right man. Address "P A 1," Engineering News, New York. 1-1t

Miscellaneous Wants

WANTED

A Small Mixer

in good condition; name price and place where it can be inspected. Address, 1-1t

JAMES F. BRADL[illegible] & CO.,
723 East Main St., Ric[illegible]ond, Virginia.